# 5.10H Blu-ray Home Theater System user manual

# imagine the possibilities

Thank you for purchasing this Samsung product. To receive more complete service, please register your product at www.samsung.com/register



# Key features of your new Blu-ray Home Theater

## PLAYER FEATURES

#### Playback of many disc types, plus an FM Tuner

The HT-BD1250 allows you to play various discs, including BD-ROM, DVD-VIDEO, DVD-RW/-R(V mode), CD, MP3-CD and CD-R/RW, with a sophisticated FM tuner, all in a single player.

# Full HD Audio Decoding Support (Dolby Digital, Dolby Pro Logic II, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD HRA, DTS-HD MA Essential)

Please refer to www.DOLBY.COM and DTS.COM for more detail.

#### **TV Screen Saver Function**

If the main unit remains in stop mode for 5 minutes, the Screen Saver mode will start. The HT-BD1250 automatically switches itself into the power saving mode after 15 minutes in the Screen Saver mode.

#### **Power Saving Function**

The HT-BD1250 automatically shuts itself off after 20 minutes in Stop mode.

#### **USB Host support**

You can connect and play files from external USB storage devices such as MP3 players, USB flash memory, etc. using the Home Theater's USB HOST function.

#### HDMI

HDMI transmits Blu-Ray/DVD video and audio signals simultaneously, and provides a clearer picture. The 1080p(Full HD) resolution provides even clearer pictures.

#### **AV SYNC Function**

Video may lag behind the audio if the unit is connected to a digital TV. To compensate for this, you can adjust the audio delay time to sync up with the video.

#### Anynet+(HDMI-CEC) Function

Anynet+ is a function that can be used to operate the main unit of this system using a Samsung TV remote control, by connecting the Blu-ray Home Theater to a SAMSUNG TV using an HDMI Cable. (This is only available with SAMSUNG TVs that support Anynet+.)

#### Wireless receiver amplifier

Samsung 's rear- channel wireless module does away with cables running between the main unit and rear- channel speakers. Instead, the rear speakers connect to a compact wireless module that communicates with the main unit.



iPod & iPhone support

You can enjoy music files by connecting your iPod to the home theater with the supplied iPod dock.

#### **BD** Wise

BD Wise automatically adjusts BD Wise-compliant Samsung products to the optimal settings between them. This feature is enabled only if BD Wise-compliant Samsung products are connected to each other using an HDMI cable.

# BLU-RAY DISC FEATURES

Blu-ray Discs support the highest quality HD video available in the industry - Large capacity means no compromise on video quality. Furthermore, a Blu-ray Disc has the same familiar size and look as a DVD.

\* The following Blu-ray Disc features are disc dependant and will vary. Appearance and navigation of features will also vary from disc to disc. Not all discs will have the features described below.

#### Video highlights

The BD-ROM format for movie distribution supports three highly advanced video codecs, including AVC, VC-1, and MPEG-2. HD video resolutions are also available:

- 1920 x 1080 HD
- 1280 x 720 HD

#### For High-Definition Playback

To view high-definition contents on a Blu-ray disc, an HDTV (High Definition Television) is required. Some discs may require using the player's HDMI OUT to view high-definition content. The ability to view high-definition content on Blu-ray disc may be limited depending on the resolution of your TV.

#### Subtitles

Depending on what is contained on the Blu-ray Disc, you may be able to select different font styles, sizes and colors for the subtitles, Subtitles may also be animated, scrolled or faded in and out.

#### **BD-LIVE**

You can use a Blu-ray Disc supporting BD-LIVE through network connection to enjoy various contents provided by the disc manufacturer.

#### BLOCKBUSTER

This Blue-ray Home Theater enables you to enjoy movies on-demand provided by Blockbuster through a network connection.

#### NETFLIX

This Blu-ray Home Theater enables you to enjoy movies on-demand provided by Netflix through a network connection.

#### PANDORA

This Blu-ray Home Theater enables you to enjoy Internet Radio provided by Pandora through a network connection.

© 2005-2009 Pandora Media, Inc., All Rights Reserved Pandora and the Music Genome Project are registered trademarks of Pandora Media, Inc.

#### YouTube

This Blue-ray Home Theater enables you to enjoy videos on-demand provided by YouTube through a network connection.



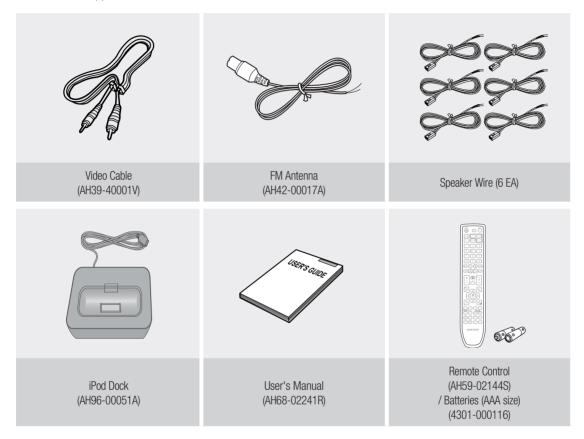
HD Video



# Key features of your new Blu-ray Home Theater

# WHAT'S INCLUDED

Check for the supplied accessories below.



# Satety information

## SAFETY WARNINGS

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVERIOR BACKI. NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
The lighting flash and Arrowhead within Triangle Is a warning sign alerting you of dangerous voltage Inside the product	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	The explanation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

**CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT** LUOKAN 1 LASER LAITE **KLASS 1 LASER APPARAT PRODUCTO LASER CLASE 1** 

#### CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product. Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

#### DANGER

 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)

#### CAUTION :

- CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM (IEC 60825-1)
- THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

#### CAUTION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

#### FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution : FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

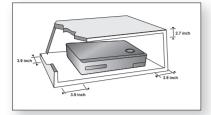
#### Important Safety Instructions

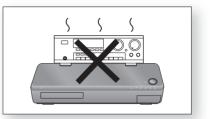
Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these Instructions.
- 3) Heed all warnings
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer? instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including
- amplifiers) that produce heat. 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachment/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 5

# Safety information

## PRECAUTIONS





Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4 inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the Disc Insert Hole is empty. This player is designed for continuous use. Switching off the Blu-ray Home Theater to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect the AC main plug from the wall outlet. Voltage peaks due to lightning could damage the unit.

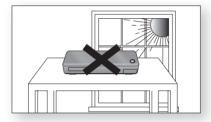


Protect the player from moisture (i.e. vases), and excess heat (e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use. Use of this product is for personal use only.

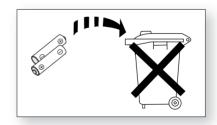
Condensation may occur if your player or disc has been stored in

cold temperatures. If transporting the player during the winter,

wait approximately 2 hours until the unit has reached room temperature before using.



Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and malfunction of the unit.



The batteries used with this product contain chemicals that are harmful to the environment.

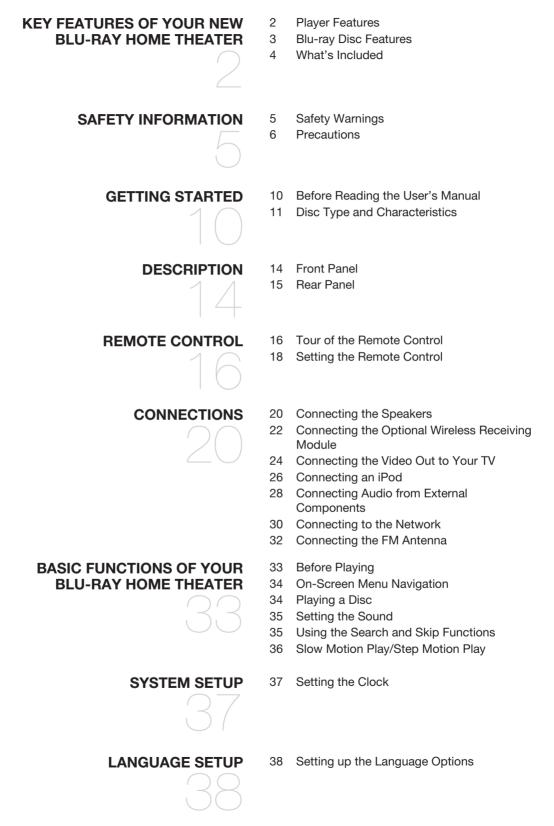
Do not dispose of batteries in the general household trash.

#### This product is covered by one or more of the following U.S. patents:

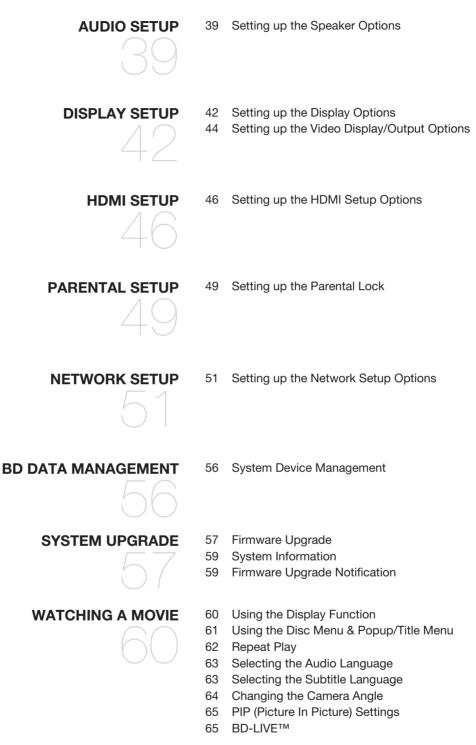
5,060,220	5,457,669	5,561,649	5,705,762	6,043,912	6,438,099	6,467,061	6,556,521	6,578,163	6,697,307	6,728,474	
6,771,891	6,894,963	6,895,593	6,937,815	6,996,327	7,009,926	7,085,221	7,088,649	7,092,327	7,099,566	7,123,564	
7,142,493	7,142,495	7,145,861	7,146,624	7,151,729	7,161,879	7,164,647	7,167,437	7,173,891	7,177,250	7,194,187	
7,203,891	7,209,423	7,210,067	7,228,062	7,245,566	7,245,567	7,257,065	7,263,045	7,269,110	7,272,086	7,272,106	
7,280,460	7,283,729	7,286,454	7,304,938								

"This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited."

# Contents



# Contents



### LISTENING TO MUSIC





### SOUND MODE



### USING THE USB FUNCTION



RADIO

### **USING AN iPod**



PC STREAMING FUNCTION

**USING THE E-CONTENTS** 



### **CONVENIENT FUNCTION**



### TROUBLESHOOTING



### **APPENDIX**

- 66 Buttons on the Remote Control Used for Audio CD(CD-DA)/ MP3 Disc Playback
- 66 Repeat Audio CD(CD-DA) & MP3
- 67 Playing an Audio CD(CD-DA)/MP3
- 69 Viewing a Picture
- 69 Slide Show/Speed
- 69 Rotate
- 70 Zoom
- 70 Go To Photo List
- 71 SFE(Sound Field Effect) Mode
- 71 Dolby Pro Logic II Mode
- 72 Dolby Pro Logic II Effect
- 73 Playing Media Files Using the USB Host Feature
- 75 Listening to Radio
- 75 Presetting Stations
- 76 Listening to Music
- 78 Watching a Movie
- 79 Connecting to a PC and Playing MP3 or JPEG Content
- 81 Using Blockbuster
- 82 Using Netflix
- 84 Using Pandora
- 86 Using YouTube
- 91 Sleep Timer Function
- 91 Adjusting Display Brightness
- 91 Mute Function

94 Cautions on Handling and Storing Discs95 Specifications

# Getting started

# BEFORE READING THE USER'S MANUAL

Make sure to check the following terms before reading the user manual.

## Icons that will be used in manual

lcon	Term	Definition
BD-ROM	BD-ROM	This involves a function available on a BD-ROM.
BD-RE	BD-RE	This involves a function available on the BD-RE.
BD-R	BD-R	This involves a function available on the BD-R.
DVD-VIDEO	DVD-VIDEO	This involves a function available on DVD-Video or DVD-RW/-R discs that have been recorded and finalized in Video Mode.
DVD-RW	DVD-RW	This involves a function available on DVD-RW. (V mode and finalized only)
DVD-R	DVD-R	This involves a function available on DVD-R. (V mode and finalized only)
Audio CD	Audio CD	This involves a function available on an audio CD-RW/CD-R (CD-DA format).
MP3	MP3	This involves a function available on DVD-RW/-R, CD-RW/CD-R discs and USB storage devices.
JPEG	JPEG	This involves a function available on DVD-RW/-R, CD-RW/CD-R discs and USB storage devices.
	USB storage device	This involves a function available on USB storage device.
	Caution	This involves a case where a function does not operate or settings may be cancelled.
	Note	This involves tips or instructions on the page that help each function operate.

### About the use of this user's manual

- 1) Be sure to be familiar with Safety Information before using this product. (See pages 5~6)
- 2) If a problem occurs, check the Troubleshooting. (See pages 92 ~93)

## Copyright

©2009 Samsung Electronics Co.,Ltd.

All rights reserved; No part or whole of this user's manual may be reproduced or copied without the prior written permission of Samsung Electronics Co.,Ltd.

## DISC TYPE AND CHARACTERISTICS

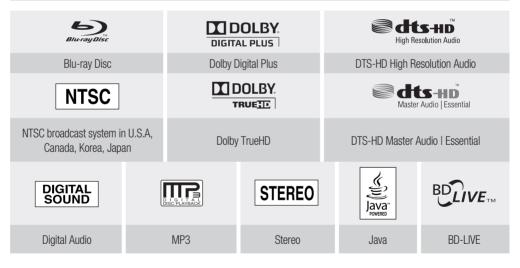
Disc Types	Disc Logo	Recorded content	Disc Shape	Max. Playing minute
BD-ROM BD-RE/BD-R	A(I)(I) + V(I)(I)		Single sided	Playing time depends on the Title
			Single sided(5 inches)	240
	VIDEO	AUDIO + VIDEO	Double sided(5 inches)	480
DVD-VIDEO			Single sided(3 1/2 inches)	80
			Double sided(3 1/2 inches)	160
	DIGITAL AUDIO		Single sided(5 inches)	74
AUDIO-CD		AUDIO	Single sided(3 1/2 inches)	20
DVD-RW (V mode and finalized only)		AUDIO + VIDEO	5 inches (4.7GB)	480 (EX : Extended Play)
DVD-R (V mode and finalized only)	R	AUDIO + VIDEO	5 inches (4.7GB)	480 (EX : Extended Play)

## Disc types that can be played

• This player is compatible with the NTSC color system only.

• PAL discs will not play.

## Logos of Discs that can be played



Ø

Manufactured under license from Dolby Laboratories. Dolby, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio | Essential are trademarks of DTS, Inc. © 1996-2008 DTS, Inc. All Rights Reserved.

ENG

# Getting started

## Discs that cannot be played

- HD DVD Disc
- DVD-RAM
- 3.9 GB DVD-R Disc for Authoring.
- DVD-RW(VR mode)

- DVD-ROM/PD/MV-Disc, etc
- CVD/CD-ROM/CDV/CD-G/CD-I/LD
- 3 1/2 inch MD (mini disc)
- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No disc." or "Please check the regional code of the disc." will be displayed.
  - If a DVD-R/-RW disc has not been recorded properly in DVD video format, it will not be playable.

## **Region code**

Both the Blu-ray Home Theater and the discs are coded by region. These regional codes must match in order to play the disc. If the codes do not match, the disc will not play. The Region Number for this Blu-ray Home Theater is described on the rear panel of the Blu-ray Home Theater.

BD Region Code	Area		
A North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South Ea			
B Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealan			
C India, China, Russia, Central and South Asia.			

DVD-Video Region Code	Area	DVD-Video Region Code	Area
1	USA, Canada	6	China
2	Japan, Europe, South Africa, Middle East, Greenland	7	Unspecified Special Use
3	Korea, Taiwan, Hong Kong, parts of South East Asia	8	Airlines/Cruise Ships (including Mexico)
4	Australia, New Zealand, Latin America (including Mexico)	9	Region free
5	Eastern Europe, Russia, India, Africa		

## **Blu-ray Disc Compatibility**

Blu-ray Disc is a new and evolving format. Accordingly, disc compatibility issues are possible. Not all discs are compatible and not every disc will play back. For additional information, refer to the Compliance and Compatibility Notice section of this Manual. If you encounter compatibility problems, please contact the SAMSUNG customer care center at 1-800 SAMSUNG.



Playback may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the box. Please refer to this if necessary.

- Do not allow the disc to become dirty or scratched. Fingerprints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for playback.
- Discs with PAL programs recorded on them cannot be played using this product.
- When a BD-Java title is played, loading may take longer than a normal title, or some functions may perform slowly.

**GETTING STARTED** 

## **Disc Types**

### BD-RE/BD-R

Blu-ray Disc Rewritable/Blu-ray Disc Recordable. BD-RE/BD-R is the ideal format for making backups, or recording personal video.

### BD-ROM

Blu-ray Disc Read Only Memory. A BD-ROM disc contains pre-recorded data. Although a BD-ROM may contain any form of data, most BD-ROM discs will contain movies in High Definition format, for playback on Blu-ray Home Theaters. This unit can play back pre-recorded commercial BD-ROM discs.

#### DVD-Video

- A digital versatile disc (DVD) can contain up to 135-minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby Digital surround, allowing you to enjoy vivid and clear theatre quality images.
- When switching from the first layer to the second layer of a dual-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
- Once a DVD-RW/-R recorded in Video Mode is finalized, it becomes DVD-Video. Pre-recorded (prestamped) commercial DVDs with movies are also referred to as DVD-Videos. This unit can play back pre-recorded commercial DVD discs (DVD-Video discs) with movies.

### Audio CD

- An audio disc on which 44.1kHz PCM Audio is recorded.
- This unit can play back CD-DA format audio CD-R and CD-RW discs.
- The unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

#### CD-R/-RW

- Use a 700MB(80 minutes) CD-R/-RW disc. If possible, do not use a 800MB(90 minutes) or above disc, as the disc may not play back.
- If the CD-R/-RW disc was not recorded as a closed session, you may experience delays when playing back the beginning of the disc or all recorded files may not play.
- Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them. For contents recorded on CD-R/-RW media from CDs for your personal use, playability may vary depending on contents and discs.

### DVD-R Disc Playback

- Once a DVD-R recorded in Video Mode is finalized, it becomes DVD-Video.
- This unit can play back DVD-R discs recorded and finalized with a Samsung DVD video recorder. It
  may not be able to play some DVD-R discs depending on the disc and the condition of the recording.

### DVD-RW Disc Playback

- Playback can be performed with DVD-RW discs in the Video Mode and finalized only.
- Once a DVD-RW recorded in Video Mode is finalized, it becomes DVD-Video. Ability to play back may depend on recording conditions.

### **Disc Format**

### Using MP3 disc

- CD-R/-RW, DVD-RW/-R recorded with UDF, ISO9660 or JOLIET format can be played back.
- Only MP3 files with the ".mp3" or ".MP3" extension can be played.
- Playable bit-rate range is from 56 Kbps to 320 Kbps.
- Playable sample-rate is 32KHz to 48KHz.
- The unit can handle a maximum of 1500 files and folders under a parent folder. For MP3 files recorded with a VBR(Variable Bit Rates), the sound may cut in and out.

#### Using JPEG disc

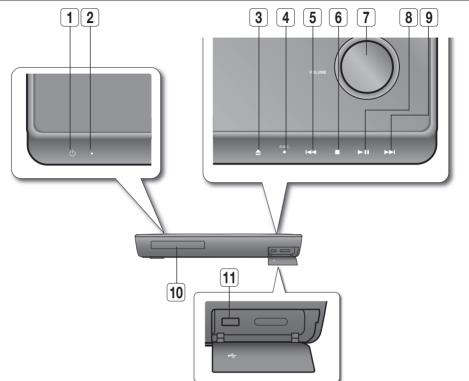
- CD-R/-RW, DVD-RW/-R recorded with UDF, ISO9660 or JOLIET format can be played back.
- Only JPEG files with the ".jpg", ".JPG", ".jpeg" or "JPEG" extension can be displayed.
- Progressive JPEG is supported.

### DVD-RW/-R (V)

- This is a format that is used for recording data on a DVD-RW or DVD-R disc. The disc can be played by this Blu-ray Home Theater once it has been finalized.
- If a disc that has been recorded in Video Mode by a different maker's recorder but has not been finalized, it cannot be played by this Blu-ray Home Theater.
- A file which has .divx or .avi extension cannot be played.

# Description

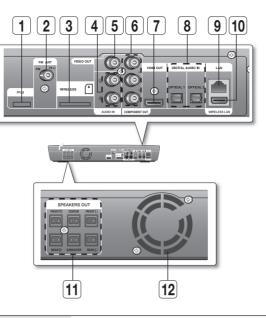
## **FRONT PANEL**



1	POWER BUTTON	Turns the Blu-ray Home Theater on and off.
2	STANDBY INDICATOR	When the unit is first plugged in, this indicator lights.
3	OPEN/CLOSE BUTTON	Opens and closes the disc tray.
4	FUNCTION BUTTON	The mode switches as follows : BD/DVD $\rightarrow$ D.IN 1 $\rightarrow$ D.IN 2 $\rightarrow$ AUX $\rightarrow$ FM.
5	TUNING DOWN & Skip ( Ima ) Button	Goes back to the previous title/chapter/track. Tunes down the FM frequency band.
6	STOP BUTTON	Stops disc playback.
7	Volume Control BUTTON	Volume adjustment.
8	PLAY/PAUSE BUTTON	Plays a disc or pauses playback.
9	TUNING UP & Skip( 🗪 ) Button	Goes to the next title/chapter/track. Tunes up the FM frequency band.
10	DISC TRAY	Opens to accept a disc.
11	USB HOST	A USB storage device can be connected here and used as storage when connected to BD-LIVE. It can also be used for firmware upgrades and MP3/JPEG playback.

You must use the USB HOST on the rear panel of the Blu-ray Home Theater to connect a wireless LAN Adapter.
 A USB HDD device cannot be used for BD Data storage (BD-LIVE).

DESCRIPTION

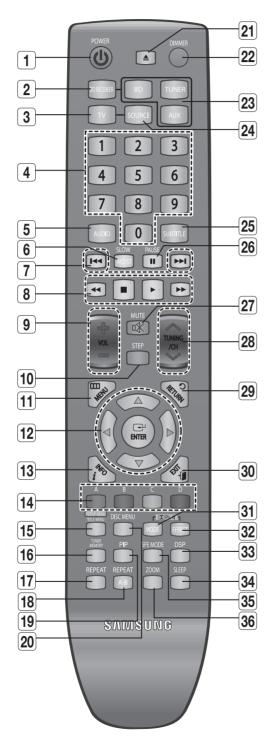


1	iPod JACK	Connect the iPod dock connector here.
2	FM 75 $\Omega$ Coaxial Jack	Connect the FM antenna.
3	TX CARD CONNECTION (WIRELESS)	The TX card enables communication between the main unit and the optional wireless receiver amplifier.
4	AUX IN JACKS	Connect to the 2CH analog output of an external device (such as a VCR)
5	VIDEO OUTPUT JACK	Connect your TV's Video Input jack (VIDEO IN) to the VIDEO OUT Jack on this unit.
6	COMPONENT VIDEO OUTPUT JACKS	Connect a TV with Component video inputs to these jacks.
7	HDMI OUT JACK	Use the HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture.
8	EXTERNAL DIGITAL OPTICAL INPUT Jacks (optical1, optical2)	Use this to connect external equipment capable of digital output.
9	LAN TERMINAL	Can be used for connection to BD-LIVE, Blockbuster, Netflix, Pandora and YouTube. It can be also used for firmware upgrades.
10	WIRELESS LAN JACK	A USB storage device can be connected here and used as storage when connected to BD-LIVE. It can also be used for firmware upgrades and MP3/JPEG playback, as well as for connecting to BD-Live with a wireless LAN adapter.
11	5.1 CHANNEL SPEAKER OUTPUT Connectors	Connect the front, center, surround, subwoofer speakers.
12	COOLING FAN	The fan always revolves when the power is on. Ensure a minimum of 4 inches of clear space on all sides of the fan when installing the product.

• Oversized USB drives may not be able to be inserted when a LAN or HDMI cable is connected.

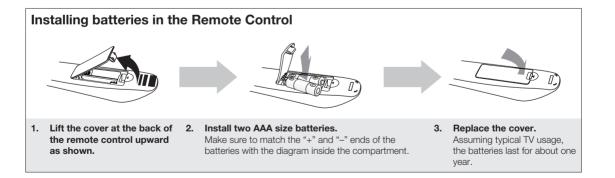
# Remote control

# TOUR OF THE REMOTE CONTROL



1	POWER button	
2	BD RECEIVER button	
3	TV button	
4	Number (0~9) buttons	
5	AUDIO button	
6	SLOW, MO/ST button	
7	Tuning Preset/CD Skip buttons	
8	<ul> <li>PLAY button</li> <li>STOP button</li> <li>SEARCH buttons</li> </ul>	
9	VOLUME button	
10	STEP button	
11	MENU button	
12	Cursor/ENTER button	
13	INFO button	
14	COLOR Buttons : RED(A), GREEN (B), YELLOW(C), BLUE(D)	
15	POPUP MENU, TITLE MENU button	(
16	TUNER MEMORY button	
17	REPEAT button	(
18	REPEAT A-B button	

19	PIP button
20	DISC MENU button
21	OPEN/CLOSE button
22	DIMMER button
23	BD button TUNER button
24	SOURCE button
25	SUBTITLE button
26	PAUSE button
27	MUTE button
28	TUNING/CH button
29	RETURN button
30	EXIT button
31	PL II MODE button
32	PL II EFFECT button
33	DSP button
34	SLEEP button
35	SFE MODE button
36	ZOOM button



# Remote control

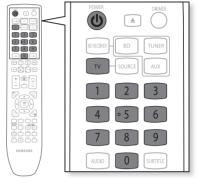
# SETTING THE REMOTE CONTROL

You can control certain functions of your TV with this remote control.

#### When operating a TV with the remote control

- 1. Press the  $\ensuremath{\text{TV}}$  button to set the remote to TV mode.
- 2. Press the **POWER** button to turn on the TV.
- 3. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
  - If there is more than one code listed for your TV in the able, enter one at a time to determine which code works.

**Example : For a Samsung TV** While holding down the **POWER** button, use the **number** buttons to enter 00, 15, 16, 17 and 40.



- 4. If the TV turns off, the setting is complete.
  - You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).
  - The remote control may not work on some brands of TVs. Also, some operations may not be possible depending on your brand of TV.
    - If you do not set the remote control with the code for your brand of TV, the remote control will work on a Samsung TV by default.

## **Operation Range of the Remote Control**

The remote control can be used up to approximately 23 feet (7 meters) in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



## TV Brand Code List

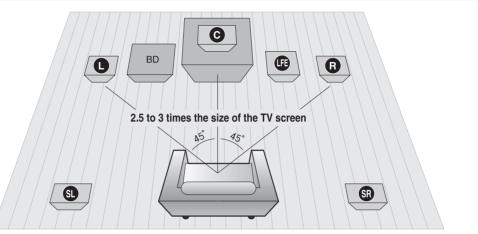
No.	Brand	Code	No	Brand	Code
1	Admiral (M.Wards)	56, 57, 58	44	MTC	18
2	A Mark	01, 15	45	NEC	18, 19, 20, 40, 59, 60
3	Anam	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11,	46	Nikei	03
		12, 13, 14	47	Onking	03
4	AOC	01, 18, 40, 48	48	Onwa	03
5	Bell & Howell (M.Wards)	57, 58, 81	49	Panasonic	06, 07, 08, 09, 54, 66, 67, 73, 74
6	Brocsonic	59, 60	50	Penney	18
7	Candle	18	51	Philco	03, 15, 17, 18, 48, 54, 59, 62, 69, 90
8	Cetronic	03	52	Philips	15, 17, 18, 40, 48, 54, 62, 72
9	Citizen	03, 18, 25	53	Pioneer	63, 66, 80, 91
10	Cinema	97	54	Portland	15, 18, 59
11	Classic	03	55	Proton	40
12	Concerto	18	56	Quasar	06, 66, 67
13	Contec	46	57	Radio Shack	17, 48, 56, 60, 61, 75
14	Coronado	15	58	RCA/Proscan	18, 59, 67, 76, 77, 78, 92, 93, 94
15	Craig	03, 05, 61, 82, 83, 84	59	Realistic	03, 19
16	Croslex	62	60	Sampo	40
17	Crown	03	61	Samsung	00, 15, 16, 17, 40, 43, 46, 47, 48, 49,
18	Curtis Mates	59, 61, 63			59, 60, 98
19	CXC	03	62	Sanyo	19, 61, 65
20	Daewoo	02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24,	63	Scott	03, 40, 60, 61
		25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90	64	Sears	15, 18, 19
21	Daytron	40	65	Sharp	15, 57, 64
22	Dynasty	03	66	Signature 2000 (M.Wards)	57, 58
23	Emerson	03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85	67	Sony	50, 51, 52, 53, 55
24	Fisher	19, 65	68	Soundesign	03, 40
25	Funai	03	69	Spectricon	01
26	Futuretech	03	70	SSS	18
27	General Electric (GE)	06, 40, 56, 59, 66, 67, 68	71	Sylvania	18, 40, 48, 54, 59, 60, 62
28	Hall Mark	40	72	Symphonic	61, 95, 96
29	Hitachi	15, 18, 50, 59, 69	73	Tatung	06
30	Inkel	45	74	Techwood	18
31	JC Penny	56, 59, 67, 86	75	Teknika	03, 15, 18, 25
32	JVC	70	76	TMK	18, 40
33	KTV	59, 61, 87, 88	77	Toshiba	19, 57, 63, 71
34	KEC	03, 15, 40	78	Vidtech	18
35	KMC	15	79	Videch	59, 60, 69
36	LG (Goldstar)	01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44	80	Wards	15, 17, 18, 40, 48, 54, 60, 64
37	Luxman	18	81	Yamaha	18
38	LXI (Sears)	19, 54, 56, 59, 60, 62, 63, 65, 71	82	York	40
39	Magnavox	15, 17, 18, 48, 54, 59, 60, 62, 72, 89	83	Yupiteru	03
40	Marantz	40, 54	84	Zenith	58, 79
41	Matsui	54	85	Zonda	01
42	MGA	18, 40	86	Dongyang	03, 54
43	Mitsubishi/MGA	18, 40, 59, 60, 75			

ENG

# Connections

This section involves various methods of connecting the Blu-ray Home Theater to other external components. Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

## CONNECTING THE SPEAKERS



#### Position of the Blu-ray Home Theater

Place it on a stand or cabinet shelf, or under the TV stand.

#### Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. Example : For 32" TVs 6~8feet (2~2.4m) For 55" TVs 11~13feet (3.5~4m))

### Front Speakers

Place these speakers in front of your listening position, facing inwards (about 45°) toward you.

Place the speakers so that their tweeters will be at the same height as your ear.

Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

### Center Speaker **C**

It is best to install it at the same height as the front speakers. You can also install it directly over or under the TV.

### Surround Speakers (1) (8)

Place these speakers to the side of your listening position. If there isn't enough room, place these speakers so they face each other. Place them about 2 to 3 feet (60 to 90cm) above your ear, facing slightly downward.

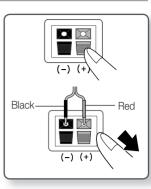
\* Unlike the front and center speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

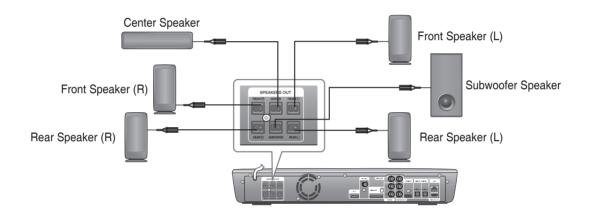
### Subwoofer III

The position of the subwoofer is not so critical. Place it anywhere you like.

## **Connecting The Speakers**

- 1. Press down the terminal tab on the back of the speaker.
- 2. Insert the black wire into the black terminal (–) and the red wire into the red (+) terminal, and then release the tab.
- **3.** Connect the connecting plugs to the back of the Blu-ray Home Theater by matching the colors of the speaker plugs to the speaker jacks.





Do not let children play with or near the speakers. They could get hurt if a speaker falls.

- When connecting the speaker wires to the speakers, make sure that the polarity (+/-) is correct.
- Keep the subwoofer speaker out of reach of children so as to prevent children from inserting their hands or alien substances into the duct (hole) of the subwoofer speaker.
- Do not hang the subwoofer on the wall through the duct (hole).
- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

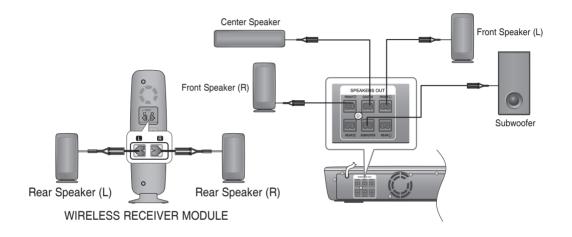
# Connections

# CONNECTING THE OPTIONAL WIRELESS RECEIVING MODULE

To connect the rear speakers by wireless, you have to purchase the wireless receiving module and TX card from your Samsung retailer.

## When you have Purchased the Wireless Receiving Module (SWA-4000)

This product (HT-BD1250) should be connected only with SWA-4000.



- **1.** Connect the front, center and Subwoofer speakers to the Blu-Ray Home Theater, referring to page 21.
- 2. With the Blu-Ray Home Theater turned off, insert the TX card into the TX Card Connection(WIRELESS) on the back of the main unit.
  - Hold the TX card so that the slanted side faces to the left and insert the card into the port.
  - The TX card enables communication between the main unit and the wireless receiver.
- **3.** Connect the left and right rear speakers to the wireless receiving module.
- **4.** Plug the power cord of the wireless receiving module in the wall outlet.





- Place the wireless receiver module at the rear of the listening position. If the wireless receiver module is too close to the main unit, some sound interruption may be heard due to interference.
- If you use a device such as a microwave oven, wireless LAN Card or any other device that uses the same frequency (5.8GHz) near the system, some sound interruption may be heard due to interference.
- The transmission distance from the main unit to the wireless receiving module is about 33 feet (10m), but may vary depending on your operating environment. If a steel-concrete wall or metallic wall is between the main unit and the wireless receiver module, the system may not operate at all, because the radio wave cannot penetrate metal.
- If the main unit doesn't make wireless connection, the system needs ID Setting between main unit and wireless receiver module. With the main unit turned off, press the remote control's number button buttons "0"→"1"→"3"→"5" and the main unit will turn on. With the wireless receiver module turned on, press "ID SET" button on the back of the unit for 5 seconds.

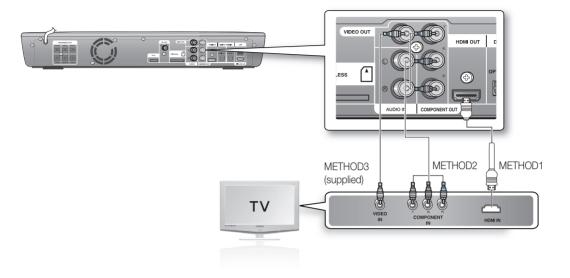
 Do not insert any other card except the TX card dedicated to the product. If a different TX card is used, the product may be damaged or the card may not be removed easily.

- Do not insert the TX card upside down or in the reverse direction.
- Insert the TX card when the Blu-Ray Home Theater is turned off. Inserting the card when it is turned on may cause a problem.
- If the TX Card is inserted and wireless receiving module setting is complete, sound is not output from the Rear Speaker connectors on the main unit.
- The wireless receiving antenna is built into the wireless receiver module. Keep the unit away from water and moisture.
- For optimal listening performance, make sure that the area around the wireless receiver module location is clear of any obstructions.
- If no sound is heard from the wireless rear speakers, switch the mode to DVD 5.1 channel or Dolby Pro Logic II.
- In 2-CH mode, no sound will be heard from the wireless rear speakers.

# Connections

# CONNECTING THE VIDEO OUT TO YOUR TV

Choose one of the three methods for connecting to a TV.



## METHOD 1 : HDMI (BEST)

Connect the HDMI cable (not supplied) from the HDMI OUT jack on the back of the Blu-ray Home Theater to the HDMI IN jack on your TV.

- Depending on your TV, certain HDMI output resolutions may not work.
  - If an HDMI cable is connected from the player to a TV, the Blu-ray Home Theater's output is set to HDMI automatically within 10 seconds.
  - If you are using the Anynet + feature (see page 46) and Component and HDMI are both connected, HDMI mode is automatically selected.
  - When you connect the player to the TV using the HDMI cable for the first time or to a new TV, the HDMI output resolution will automatically be set to the highest provided by the TV.
  - If you connect a Samsung TV to the Blu-ray Home Theater using an HDMI cable, the player can be easily operated using the TV remote control. (This is only available with Samsung TVs that support the Anynet+ feature.) (See page 46)
  - If the HDMI cable is connected or removed during playback of a CD-DA, MP3 or JPEG file, the player will stop playing.
  - After making the video connection, set the Video input source on your TV to match the corresponding Video output (HDMI, Component or Composite) on your Blu-ray Home Theater. See your TV owner's manual for more information on how to select the TV's Video Input source.
  - If you have set the remote control to operate your TV, press the SOURCE button on the remote control and select HDMI as the external source of the TV.

## **HDMI** Auto Detection Function

The player's video output will automatically change to HDMI mode when connecting an HDMI cable while power is on. For possible HDMI resolutions, see page 43.

#### • HDMI (High Definition Multimedia Interface)

HDMI is an interface that enables the digital transmission of video and audio data with just a single connector. Using HDMI, the Blu-ray Home Theater transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.

ENG

#### HDMI connection description

HDMI connector - Supports video and digital audio data.

- HDMI outputs only a pure digital signal to the TV.

- If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.

#### • Why does Samsung use HDMI?

Analog TVs require an analog video/audio signal. However, when playing a BD/DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the Blu-ray Home Theater) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the player to your TV.

#### • What is the HDCP?

HDCP (High-band width Digital Content Protection) is a system for protecting BD/DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

#### • What is Anynet+?

- Anynet+ is a convenient function that offers linked operation of this unit through Samsung TVs with the Anynet+ feature.
- If your Samsung TV has an Anynet+ logo, then it supports the Anynet+ function.
- If you turn on the player and insert a disc, the player will start playing the disc, and the TV will turn on automatically and switch to HDMI mode.
- If you turn on the player and press the **PLAY** button with a disc already inserted, the TV will immediately turn on and switch to HDMI mode.

#### • What is BD Wise?

BD Wise is Samsung's latest inter-connectivity feature.

- When you connect Samsung products with BD-Wise to each other via HDMI, the optimum resolution will be set automatically.

## METHOD 2 : Component Video (BETTER)

If your television is equipped with Component Video inputs, connect a Component video cable (not supplied) from the Component Video Output (Pr, Pb and Y) Jacks on the back of the Blu-ray Home Theater to the Component Video Input Jacks on your TV.

- You can select from a variety of resolution settings such as 1080i, 720p, 480p and 480i, depending on the disc type. (See page 44)
  - The actual resolution may differ from the setting in the SETUP menu if both Component and HDMI cables are connected. The resolution may also be different depending on the disc. (See page 44)
  - After making the video connection, set the Video input source on your TV to match the corresponding Video output (HDMI, Component or Composite) on your Blu-ray Home Theater. See your TV owner's manual for more information on how to select the TV's Video Input source.
  - If you have set the remote control to operate your TV, press the SOURCE button on the remote control and select COMPONENT as the external source of the TV.
  - In DVD playback, if both HDMI and Component jacks are connected and you select the Component 1080p, 1080i or 720p mode, the Display Setup menu will show the output resolution as 1080p, 1080i or 720p in the menu. The resolution is actually 480i.

### METHOD 3 : Composite Video (GOOD)

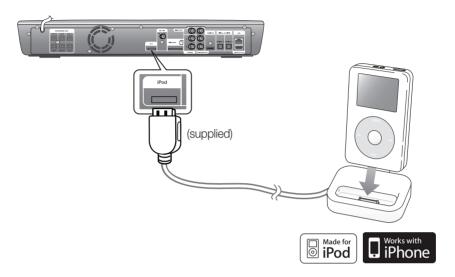
Connect the supplied Video cable from the VIDEO OUT jack on the back of the Blu-ray Home Theater to the VIDEO IN jack on your TV.

- The VIDEO source is always output in 480i resolution regardless of the resolution set in the SETUP menu. (See page 44)
  - After making the video connection, set the Video input source on your TV to match the corresponding Video output (HDMI, Component or Composite) on your Blu-ray Home Theater. See your TV owner's manual for more information on how to select the TV's Video Input source.
  - If you have set the remote control to operate your TV, press the SOURCE button on the remote control and select VIDEO as the external source of the TV.
  - Do not connect the unit through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television.

# $) \bigcirc ($

## **CONNECTING AN iPod**

You can enjoy music, video files from an iPod through the main unit. For iPod operation with this Blu-ray home theater, see pages 27 and 76 ~ 78.



- **1.** Connect the iPod Dock to the iPod Jack on the rear side of the main unit.
- 2. Place the iPod in the dock.
  - "iPod Connected" message appears on the TV screen.



- You must have the VIDEO output connected to your TV to view iPod video (See page 25).
  - As the cable ports are close together, be sure to remove the USB memory drive before disconnecting the ipod docking cable.
  - Adjust the volume to a moderate level before you connect your iPod and Blu-ray home theater.
  - When the unit is powered on and you connect an iPod, the unit will charge your iPod's battery.
  - Make sure to connect the dock connector so that the label "SAMSUNG" faces upward.
  - "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

## iPod models that can be used with the HT-BD1250

<b>*</b>	i <b>Pod nano</b> 3rd generation (video) 4GB 8GB	*	<b>iPod</b> 5th generation (video) 30GB 60GB 80GB	•	iPod classic 80GB 120GB 160GB
	i <b>Pod touch</b> 1st generation 4GB 16GB 32GB	<b>*</b>	<b>iPod nano</b> 4th generation(video) 8GB 16GB		<b>iPhone 3G</b> 8GB 16GB
	iPod touch 2nd generation 8GB 16GB 32GB	- 0	<b>iPhone</b> 4GB 8GB 16GB		

- "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
  - "Works with iPhone" means that an electronic accessory has been designed to connect specifically to an iPhone and has been certified by the developer to meet Apple performance standards.
  - Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries. iPhone is a trademark of Apple Inc.

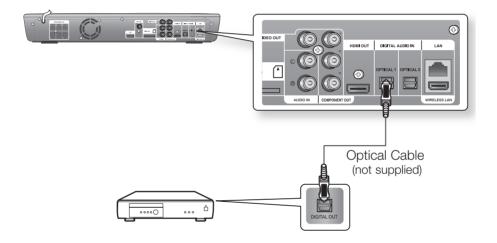
# Connections

## CONNECTING AUDIO FROM EXTERNAL COMPONENTS

## **OPTICAL : Connecting an External Digital Component**

Digital signal components such as a Cable Box/Satellite receiver (Set-Top Box).

- 1. Connect the Digital Input (OPTICAL 1 or OPTICAL 2) on the main unit to the Digital Output of the external digital component.
- 2. Press the FUNCTION button on the main unit to select D.IN input.
  - The mode switches as follows : BD/DVD  $\rightarrow$  D.IN 1  $\rightarrow$  D.IN 2  $\rightarrow$  AUX  $\rightarrow$  FM.

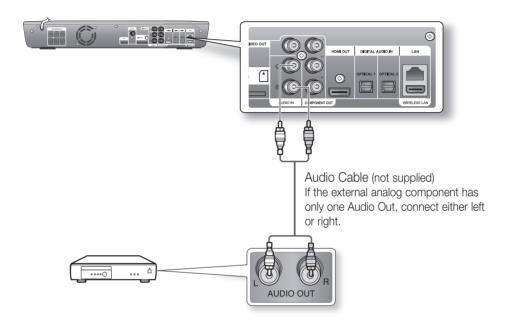


- To see video from your Cable Box/Satellite receiver, you must connect it's video output to a TV.
  - This system supports Digital sampling frequencies of 32 kHz of higher from external digital components.
  - This system supports only DTS and Dolby Digital audio, MPEG audio which is bitstream cannot be supported.

## AUX : Connecting an External Analog Component

Analog signal components such as a VCR.

- Connect AUX IN (Audio) on the main unit to the Audio Out of the external analog component.
   Be sure to match connector colors.
- 2. Press the AUX button on the remote control to select AUX input.
  - You can also use the FUNCTION button on the main unit. The mode switches as follows : BD/DVD → D.IN 1 → D.IN 2 → AUX → FM.





You can connect the Video Output jack of your VCR to the TV, and connect the Audio Output jacks of the VCR to this product. ENG

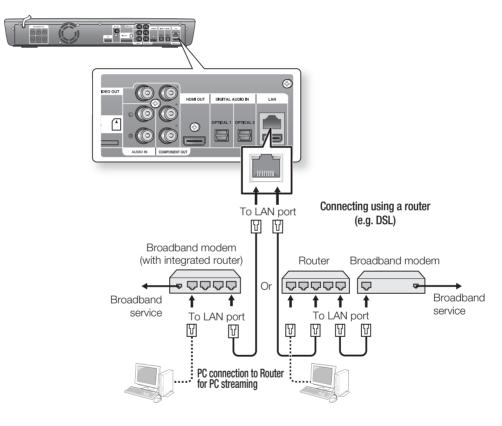
# Connections

# CONNECTING TO THE NETWORK

To access network service or upgrade the current firmware, you must make one of the following connections. By connecting to a network, you can access the BD-LIVE, Blockbuster, Netflix, Pandora, YouTube services, PC streaming and Software upgrades from Samsung's update server. We recommend you use an AP or router for the network. If you don't have one, you'll need two network providing services to use the PC streaming function.

## Case 1 : Connecting a Direct LAN Cable to your Modem

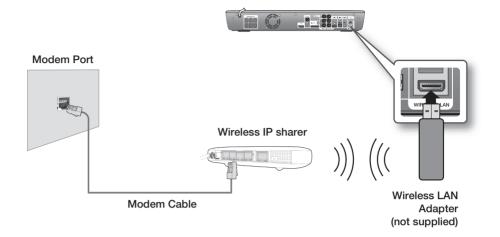
1. Using the Direct LAN Cable (UTP cable, not supplied), connect the LAN terminal of the Blu-ray Disc Player to the LAN terminal of your modem.



To use the PC streaming function (see pages 79~80), please make a network between your PC and router.

- Internet access to Samsung's update server may not be allowed, depending on the router you use or the ISP's policy.
- For more information, contact your ISP (Internet Service Provider).
- For DSL users, please use a router to make a network connection.

You can connect to network with a Wireless IP sharer. See page 52 for Wireless Network Setup.



This unit is compatible with only Samsung Wireless LAN Adapter. (not supplied) (Model name: WIS09ABGN).

- The Samsung Wireless LAN Adapter is sold separately.
- Contact a Samsung Electronics agent or service center for purchasing.
- You must use a wireless IP sharer that supports IEEE 802.11 a/b/g/n. (n is recommended for stable operation of the wireless network.)
- Wireless LAN, in its nature, may cause interference, depending on the use condition (AP performance, distance, obstacle, interference by other radio devices, etc).
- Set the wireless IP sharer to Infrastructure mode. Ad-hoc mode is not supported.
- When applying the security key for the AP (wireless IP sharer), only the following is supported.

1) Authentication Mode : WEP, WPAPSK, WPA2PSK

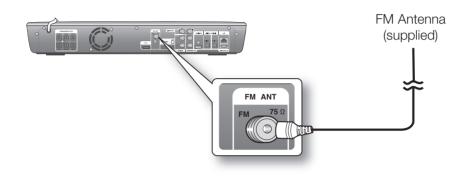
2) Encryption Type : WEP, TKIP, AES

ENG

# Connections

## CONNECTING THE FM ANTENNA

- 1. Connect the FM antenna supplied to the FM  $75\Omega$  COAXIAL Jack.
- **2.** Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

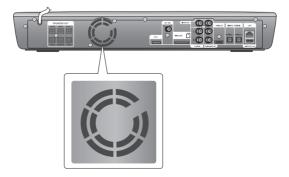


This unit does not receive AM broadcasts.

## **Cooling Fan**

The cooling fan supplies cool air to the unit to prevent overheating. Please observe the following cautions for your safety.

- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit may rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)



**BASIC FUNCTIONS** 

# Basic functions of your Blu-ray Home Theater

This section introduces basic playback functions and playback by disc type.

# **BEFORE PLAYING**

- Turn on your TV and set it to the correct Video Input (the input the Blu-ray Home Theater is connected to).
- If you connected an external Audio System, turn on your Audio System and set it to the correct Audio Input.

After plugging in the player, the first time you press the **POWER** button, this screen comes up:

If you want to select a language, press a **NUMBER** button. (This screen will only appear when you plug in the player for the first time.) If the language for the startup screen is not set, the settings may change whenever you turn the power on or off. Therefore, make sure that you select the language you want to use. Once you select a menu language, you can change it by pressing the **STOP** (■) button on the front panel of the unit for more than 5 seconds with no disc in the unit. Then the MENU LANGUAGE SELECTION window appears again where you can reset your preferred language.



- Discs which can be played on this player (For the following discs, the ability to play back may depend on recording conditions.)
  - BD-ROM BD-RE
- BD-R • CD-RW/CD-R

• CD-I

- DVD-R
  DVD-RW (V mode)
  CD-RW/CD-R
  The unit may not play certain CD-RW/CD-R and DVD-R due to the disc type or recording conditions.
- Discs which cannot be played on this player.

- DVD+RWDVD-RAM
- DVD-ROMCD-ROM
  - D-ROM CVD
- Super Audio CD(except CD layer)
- DVD+R
  - CDV
- CDGs play audio only, not graphics.
- Blu-ray is a new and evolving format. Accordingly, disc compatibility issues with new and existing format discs are possible. Not all discs are compatible and not every disc will playback.

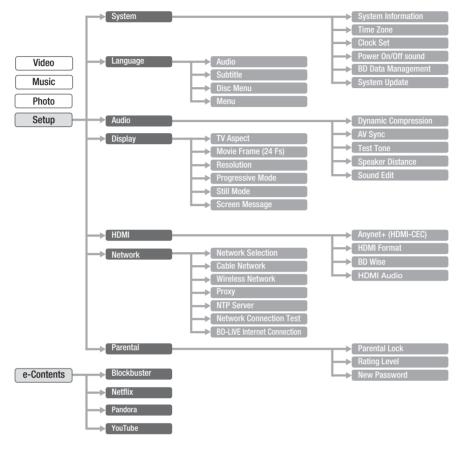
For additional information, refer to the Disc Type and Characteristics and Compliance and Compatibility Notice sections of this Manual. If you encounter compatibility problems, please contact SAMSUNG customer care center.

33

# Basic functions of your Blu-ray Home Theater

# **ON-SCREEN MENU NAVIGATION**

The GUI (Graphical User Interface) in this manual may differ, depending on the firmware version.



## PLAYING A DISC

- 1. Press the **OPEN/CLOSE** button.
- 2. Place a disc gently into the tray with the disc's label facing up.
- 3. Press the PLAY button or OPEN/CLOSE button to close the disc tray.

When you stop disc play, the player remembers where you stopped, so when you press PLAY button again, it will pick up where you left off. This is called the "Resume" function. With some Blu-ray discs(BD-J), this function may not work.

- Press the **STOP** button twice during playback to disable the Resume function.
- To pause the playback, press the PAUSE button during playback. To resume, press the PLAY button.
- If the player is left in the stop mode more than 5 minutes without any user interface, a screen saver will appear on your TV. If the player is left in the screen saver mode for more than 15 minutes, the power will automatically turn off except during playback of an CD-DA (Automatic Power-Off Function).
- If no buttons are pressed on the unit or remote control for more than 5 minutes when the unit is in Pause mode, operation will stop (except for some Blu-ray Discs).

35

ENG

# Setting the Power On / Off Melody Sound

A Melody sound can be set so it is heard each time you turn the player on or off.

- 1. With the unit in Stop mode, press the **MENU** button.
- Press the ▲▼ <> buttons to select Setup, then press the ENTER or > button.
- Press the ▲▼ buttons to select System, then press the ENTER or ► button.
- Press the ▲▼ buttons to select Power On/Off sound, then press the ENTER or ► button.
- Press the ▲▼ buttons to select On or Off, then press the ENTER or ► button.
- 6. Press the **MENU** button to exit the setup menu.

# USING THE SEARCH AND SKIP FUNCTIONS

During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

## Searching through a Chapter or Track

During playback, press the **SEARCH** ( ) button. Each time you press the **SEARCH** button, the playback speed will change as follows.

BD-ROM, BD-RE, BD-R, DVD-VIDEO,<br/>DVD-RW, DVD-R $X 2 \rightarrow Y X 4 \rightarrow Y X 8 \rightarrow Y X 16 \rightarrow Y X 32 \rightarrow Y X 128$  $X 2 \rightarrow Y X 4 \rightarrow Y X 8 \rightarrow Y X 16 \rightarrow Y X 32 \rightarrow Y X 128$ 

• You can scan the program in reverse.

• To return to normal speed playback, press the **PLAY** button.

# **Skipping Tracks**

During playback, press the SKIP ( Internet) button.

When playing a Blu-ray Disc/DVD, if you press the **SKIP** ( $\blacksquare$ ) button, it moves to the next chapter. If you press the **SKIP** ( $\blacksquare$ ) button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.







<sup>✓ ■</sup> No sound is heard during search mode.

# Basic functions of your Blu-ray Home Theater

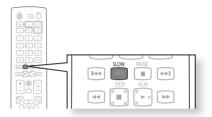
## SLOW MOTION PLAY/STEP MOTION PLAY

## **Slow Motion Play**

In pause or step mode, press the **SLOW** button on the remote control for Slow Motion play.

- If you press the SLOW button, I► 1/8 I► 1/4 I► 1/2
- To return to normal speed playback, press the **PLAY** (





■ This (Ø) icon indicates an invalid button press.

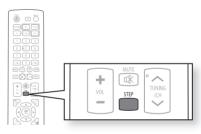
- No sound is heard during slow mode.
- Slow motion operates only in the forward direction.

## **Step Motion Play**



Press the **STEP** button on the remote control during play for Step Motion play.

- Each time the button is pressed a new frame will appear.
- When the **STEP** button is pressed, the next frame will be activated.
- Press the **PLAY** ( ) button to resume normal play.





• No sound is heard during step mode.

Step motion operates only in the forward direction.

#### SETTING THE CLOCK

#### Choose your time zone

- 1. With the unit in Stop mode, press the MENU button.
- Press the ▲▼ ◄► buttons to select Setup, then press the ENTER or ► button.
- Press the ▲▼ buttons to select System, then press the ENTER or ► button.
- Press the ▲▼ buttons to select Time Zone, then press the ENTER or ► button.
- 5. Use the ◀ ► button to place the cursor to the appropriate time zone for your area and press the ENTER button.





To set the time automatically, set the NTP server to **0n** (see page 55).

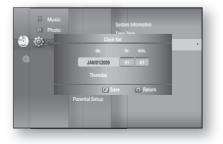
#### Set the clock

To setup, follow steps 1 through 3 above.

 Press the ▲▼ buttons to select Clock Set, then press the ENTER or ► button.



5. Press the < ► buttons to move to "da."(date), "hr" (hour), "min" (minute) and "am/pm". Set the date and time by pressing the ▲ ▼ buttons, then press the ENTER button.</li>



SYSTEM SETUF

## \_anguage setup

## SETTING UP THE LANGUAGE OPTIONS

Once you set the audio, subtitle, disc menu and player menu language options, they will be applied automatically every time you watch a movie.

If you want to choose a different audio and subtitle language while playing a disc, you can also use the disc menu to make the selection.

- 1. With the unit in Stop mode, press the **MENU** button.
- Press the ▲▼ <> buttons to select Setup, then press the ENTER or > button.
- Press the ▲▼ buttons to select Language, then press the ENTER or ► button. Language setup menu will be displayed.

- Press the ▲▼ buttons to select the desired language option, press the ENTER or ► button.
  - Audio : For the disc audio language.
  - Subtitle : For the disc subtitles.
  - Disc Menu : For the disc menu contained on the disc
  - **Menu** : For the on-screen menu of your Blu-ray Home Theater.
- 5. Press the ▲▼ buttons to select the desired language, then press the ENTER button.
- Press the **RETURN** or  $\triangleleft$  button to return to the previous menu. Press the **MENU** button to exit the menu.
  - The selected language will only appear if it is supported on the disc.







#### SETTING UP THE SPEAKER OPTIONS

#### **Dynamic Compression**

This is only active when a Dolby Digital signal is detected.

- On : When Movie soundtracks are played at low volume or from smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.
- Off : You can enjoy the movie with the standard Dynamic Range.

#### AV Sync

Video may look slower than the audio when the player is connected to a digital TV. If this occurs, adjust the audio delay time to match the video.

• You can set the audio delay time between 0 ms and 300 ms. Set it to the optimal status.





#### Setting the Test Tone

Use the Test Tone feature to check the speaker connections.

- 1. With the unit in Stop mode, press the **MENU** button.
- 2. Press the ▲▼ ◀ ► buttons to select Setup, then press the ENTER or ► button.
- Press the ▲▼ buttons to select Audio, then press the ENTER or ► button.
  - Audio setup menu will be displayed.
- Press the ▲▼ buttons to select Test Tone, then press the ENTER or ► button.
- 5. Press the RED(A) button
  - A test tone will be sent to L → C → R → SR → SL → LFE in order so you can make sure the speakers are set up correctly.
- 6. To end the test tone, press the RED (A) button again.
- Press the **RETURN** button to return to the previous menu.
  - When playing a BD/DVD or CD, this will work only in Stop mode.
  - Use this function to check that each speaker is correctly connected and that there is no problem.
  - When HDMI AUDIO is on (audio is produced through TV speakers), the TEST TONE function is not available.







AUDIO SETUF

# Audio setup

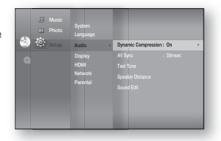
## SETTING UP THE SPEAKER OPTIONS

#### Setting the Speaker Distance

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the front, subwoofer, center, surround speakers.

- 1. With the unit in Stop mode, press the MENU button.
- Press the ▲▼ ◄► buttons to select Setup, then press the ENTER or ► button.
- Press the ▲▼ buttons to select Audio, then press the ENTER or ► button.
  - Audio setup menu will be displayed.
- Press the ▲▼ buttons to select Speaker Distance, then press the ENTER or ► button.
- Press the ▲▼ buttons to select the desired Speaker, then press the ◀► buttons to set the Speaker Distance.
  - You can set the Speaker Distance between 1ft(0.3m) and 30ft(9m).
- 6. When done, use the ▲▼ ◀► buttons to select Save, then press the ENTER button.

If you don't want to save your settings, use the ▲▼◀► buttons to select **Cancel**, then press the **ENTER** button.







Press the **RETURN** button to return to the previous menu.

#### Setting the Sound Edit

You can adjust the balance and level for each speaker.

- **1.** With the unit in Stop mode, press the **MENU** button.
- Press the ▲▼ ◄► buttons to select Setup, then press the ENTER or ► button.
- Press the ▲▼ buttons to select Audio, then press the ENTER or ► button.
  - Audio setup menu will be displayed.



#### Setting the Sound Edit

- Press the ▲▼ buttons to select Sound Edit, then press the ENTER or ► button.
- Press the ▲▼ buttons to select the desired Speaker, then press the ◀► button to adjust the settings.
- When done, use the ▲▼ ◄► buttons to select Save, then press the ENTER button.
   If you don't want to save your settings, use the ▲▼ ◀► buttons to select Cancel, then press the ENTER button.

Press the **RETURN** butt on to return to the previous menu.

#### Adjusting Front/Surround Speaker Balance

- You can select between 0, -6, and OFF.
- The volume decreases as you move closer to -6.

#### Adjusting Center/Surround/Subwoofer Speaker Level

- The volume level can be adjusted in steps from +6dB to -6dB.
- The sound gets louder as you move closer to +6dB and quieter as you get closer to -6dB.
- Press the RED(A) button to run the test tone with the screen as shown; It operates the same as a normal test tone.
  - Press the RED(A) button again to stop running the test tone and return to the previous screen.

# J Music AV Sync : 50macc Sound Edit Sound Edit Freet Balance 0 db L 0 db L Surround Balance 0 db L 0 db L 0 db L Surround Level 1111111111 0 db L Surround Level 1111111111 0 db L Same Catcel A Test Tone Move Adjust

Sound Edi

Ö



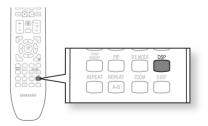
#### **DSP(Smart Sound) Function**

This will regulate and stabilize the volume level against a drastic volume change when changing channels or during a scene transition.

Press the **DSP** button.

• Each time the button is pressed, the selection changes as follows:

S.SOUND ON → S.SOUND OFF



# Display setup

## SETTING UP THE DISPLAY OPTIONS

This function allows you to setup the TV screen settings. This function depends on the disc or TV type. It may not work with some discs or TVs.

- 1. With the unit in Stop mode, press the **MENU** button.
- 2. Press the ▲▼ ◀ ► buttons to select Setup, then press the ENTER or ► button.
- Press the ▲▼ buttons to select **Display**, then press the ENTER or ► button.
   Video setup menu will be displayed.
- Press the ▲▼ buttons to select the desired display option from the options on the following pages.
- 5. Press the ▲ ▼ buttons to select the desired sub-menu item from a video display option, then press the ENTER button.
- 6. Each video option is described in detail below.

Press the RETURN or ◄ button to return to the previous menu. Press the MENU button to exit the menu.

ð TV/Ac 16-0 M

### **TV** Aspect

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)



#### • 4:3 Letter Box :

Select when you want to see the total 16:9 ratio screen a Blu-ray Disc/DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.



• 4:3 Pan-Scan : Select when you want to see the 16:9 video

supplied by the Blu-ray Disc/DVD without the black bars on top and bottom, even though you have a TV with a 4:3 ratio screen(extreme left and right portion of the movie picture will be cut off).



#### • 16:9 Wide :

You can view the full 16:9 picture on your widescreen TV.



#### • 16:9 Normal :

Certain movies(4:3 source) will be displayed in 4:3 Pillarbox (black bars on sides of picture) if 16:9 normal is selected.

- Depending on the disc type, some aspect ratios may not be available.
- If you select an aspect ratio which is different than the aspect ratio of your TV screen, then the picture might appear to be distorted.

42

Movies are usually filmed at 24 frames per second. Some Blu-ray Discs have the capability of playing back at this frame rate. Setting the Movie Frame (24Fs) feature to ON allows you to adjust the Blu-ray Home Theater's HDMI output to 24 frames per second for improved picture quality.

You can enjoy the Movie Frame (24Fs) feature only on a TV supporting this frame rate.

This menu can only be selected in 1080i or 1080p HDMI output resolution modes.

Depending on the disc, two types of frame rates may be included: Movie material (24 frame) and Video material (30

frame). When the setting switches between Movie (24 frame) and Video (30 frame), the screen may blink for a few seconds.

#### Resolution

Sets the output resolution of the HDMI and Component video signal.

- The number in 480i, 480p, 720p, 1080p and 1080i indicates the number of lines of video. The i and p indicate interlace and progressive scan, respectively.
  - BD Wise : Automatically sets the optimal resolution when connected via HDMI to a TV with the BD Wise feature.(The BD Wise menu item appears only if BD Wise is set to On.)
  - 1080p : Outputs 1080 lines of progressive video (HDMI only).
  - 1080i : Outputs 1080 lines of interlaced video.
  - 720p : Outputs 720 lines of progressive video.
  - 480p : Outputs 480 lines of progressive video.
  - 480i : Outputs 480 lines of interlaced video (Component only).

If the connected TV does not support Movie Frame or the selected resolution, you will see the following message:

If you select **Yes** and the resolution is not supported, the TV's screen will be blank. Please wait for 15 seconds and the resolution will revert to the previous value automatically.

If the screen is blank, press and hold the STOP (■) button on the front of the player for more than 5 seconds (no disc inserted). All settings are restored to the factory default. Follow the steps on the previous page to access each mode and select the Display Setup that your TV will support.

When the factory default settings are restored, all the user data stored in the BD data will be deleted.







# Display setup

## SETTING UP THE VIDEO DISPLAY/OUTPUT OPTIONS

#### Resolution according to the output mode

• Blu-ray Disc playback

Output	HDMI	Component (HDMI&Comp. connected / Comp. connected only)	VIDEO
1080p, Movie Frame(24Fs) off	1080p@60F	1080i	480i
1080p/1080i, Movie Frame (24Fs) on	1080p@24F	480i / 1080i	480i
1080i, Movie Frame (24Fs) off	1080i	1080i	480i
720p	720p	720p	480i
480p	480p	480p	480i
480i	480p	480i	480i

#### • DVD playback

Output Setup	HDMI	Component (HDMI&Comp. connected / Comp. connected only)	VIDEO
1080p	1080p@60F	480i / 480p	480i
1080i	1080i	480i / 480p	480i
720p	720p	480i / 480p	480i
480p	480p	480i / 480p	480i
480i	480p	480i	480i

 In DVD playback, if both HDMI and Component jacks are connected and you select the Component 1080p, 1080i or 720p mode, the Display Setup menu will show the output resolution as 1080p, 1080i or 720p in the menu. The resolution is actually 480i.

- This player has the HDMI Auto Detect Feature. When the player is first connected to a TV via HDMI, the player's output will be set automatically to HDMI.
- If the HDMI Auto Detection feature does not work, you can't select the 1080p resolution or Movie Frame (24Fs).
- The Blu-ray Disc must have the 24 frame feature in order to use the Movie Frame (24Fs) mode.

#### **Progressive Mode**

The Progressive Mode helps to improve picture quality when viewing 480i resolution DVD discs.

- Auto : Select this to have the player automatically set the best picture for the DVD you're watching.
- Video : Select this for the best picture from Concert or TV show DVDs.

#### Frame & Field bar

#### Still Mode

Set the Auto, Field or Frame setting for the best possible still picture (pause mode) from a DVD.

- Auto: Select this setting to have the player automatically display the best Still picture depending on the content.
- Field Mode: Select this when pausing a scene with a lot of action.
- Frame Mode: Select this to increase the resolution of the Still picture.

#### Screen Message

- On : Displays messages related to operation mode.
- Off : Does not display messages related to operation mode.



Image: System Language     TV Aspect     15:9 Normal Market       Image: Normal Analysis     Analysis     Market Strame (24 Fe)       Image: Normal Analysis     Network     Progression Mode 1: V Anos       Image: Normal Analysis     Image: Normal Analysis     Network       Image: Normal Analysis     Network     Screen Message 2: On
---

Husic System Language Photo Audio Sonup Dicpay - HDMI Network Parental	Still Mode	
--	------------	--

# HDMI setup

### SETTING UP THE HDMI SETUP OPTIONS

- 1. With the unit in Stop mode, press the **MENU** button.
- 2. Press the ▲▼ ◀ ► buttons to select Setup, then press the ENTER or ► button.
- Press the ▲▼ buttons to select HDMI, then press the ENTER or ► button. HDMI setup menu will be displayed.
- 4. Press the ▲▼ buttons to select the desired display option, then press the ENTER or ► button.



Press the RETURN or < button to return to the previous menu. Press the MENU button to exit the menu.</p>

### Anynet+ (HDMI-CEC)

#### Samsung products only

#### What is Anynet+?

Anynet+ is a convenient function that offers linked operations with other Samsung products with the Anynet+ feature.

You can operate this unit using a Samsung TV remote control or power on your Samsung TV and Home theater and start disc playback simply by pressing the **PLAY** button on the TV's remote.

This function is not available if the HDMI cable does not support CEC.

#### To use Anynet+

- 1. Connect the Blu-ray Home Theater to a Samsung TV with an HDMI cable. (See pages 24~25)
- 2. Set the Anynet+ function on your TV. (See the TV instruction manual for more information.)

#### Anynet+ Functions

• One touch play

You can power on your Samsung TV and Home Theater, and play the disc in this unit simply by pressing the **PLAY** button on the TV's remote.

• One touch watching

Select "Watching Blu-ray Home Theater" or "Connected to Blu-ray Home Theater" (depending on your TV's menu) in the Anynet+ menu on the TV. The Blu-ray Home Theater will automatically turn on and the TV will be switched to HDMI mode.

Remote control Link

You can operate this player with your Samsung TV remote control.

- Available buttons on the Samsung TV remote: These buttons work the same as this Blu-ray Home Theater's remote control.
  - Playback control buttons : 🗨 🔳 🕨 🖿
  - Menu operation button : 🖚 🤝 🗟 🛃
  - Numeric buttons : 0~9

#### TV Anynet+ Menu

When you press the Anynet+ button on your Samsung TV's remote control, the following On-Screen Display (OSD) will be shown.

- Blu-ray Home Theater Menu
  - When playing a movie : brings up the disc's menu (same as **DISC MENU** button on the Blu-ray Home Theater's remote control)
  - In Stop mode : brings up the SETUP menu (same as the **MENU** button on the Blu-ray Home Theater's remote control.)
- Blu-ray Home Theater Operation Menu
  - When playing a DVD VIDEO, DVD-RW/-R, BD-ROM, BD-RE : shows INFO OSD (same as **INFO** button on the player's remote control)

These menus may look different depending on your Samsung TV.

#### **HDMI** Format

You can optimize the HDMI output for connection to a TV or Monitor.

- TV : Select if connected to a TV via HDMI.
- Monitor : Select if connected to a Monitor via HDMI. If the player is connected to a TV, the Monitor option is unavailable.



TV or monitor has to be connected to the player before you select this option.

#### **BD** Wise

BD Wise is Samsung's latest inter-connectivity feature. When you connect Samsung products with BD-Wise to each other via HDMI, the optimum resolution will be set automatically.

- **On** : The original resolution of the BD/DVD disc will be output to the TV direct.
- Off : The output resolution will be fixed according to the Resolution previously set, regardless of the resolution of the disc.

#### Samsung products only





If you want to change the resolution when you set BD Wise on, you must set BD Wise to Off in advance.

- If you set BD Wise to off, the resolution of the connected TV will be automatically adjusted to its maximum resolution.
- If the player is connected to a device that does not support BD Wise, you can not use the BD wise function.
- For a proper operation of BD Wise, set BD Wise to ON in the menus of the player and the TV.



# HDMI setup

## SETTING UP THE HDMI SETUP OPTIONS

#### **HDMI** Audio

The audio signals transmitted over the HDMI Cable can be toggled ON/OFF.

- On : Both video and audio signals are transmitted over the HDMI connection cable, and audio is output through your TV speakers only.
- Off: Video is transmitted over the HDMI connection cable only, and audio is output through the Blu-ray Home Theater speakers only.

Music Photo Comp Betup	Language Audio Display HDMI PHMI Parental	Anynet + (HDMI-CEQ) HDMI Format BD Wise HDMI Audio	
			_

The default setting of this function is HDMI Audio Off.

HDMI AUDIO is automatically down-mixed to 2ch for TV speakers.

# Parental setup

## SETTING UP THE PARENTAL LOCK

The Parental Lock function works in conjunction with Blu-ray Disc/DVDs that have been assigned a rating which helps you control the types of Blu-ray Disc/DVDs that your family watches. There are up to 8 rating levels on a disc.

- **1.** With the unit in Stop mode, press the **MENU** button.
- 2. Press the **AVA>** buttons to select **Setup**, then press the **ENTER** or ► button.
- **3.** Press the ▲ ▼ buttons to select **Parental**, then press the **ENTER** or ► button.

When you operate your Blu-ray Home Theater for the first time, the "Enter New password." message will be displayed.

4. Enter the 4-digit password using the number buttons on the remote control.

The "Confirm the password," message will be displayed. Enter your password again.

5. Press the ENTER or ► button to select Parental Lock.

 $|\mathcal{V}|$ 

6. Press the ▲ ▼ buttons to select **On** or **Off**, then press the ENTER button.

■ Press the **RETURN** or **<** button to return to the previous menu. Press the **MENU** button to exit the menu.









Parental Lock

: Off

PARENTAL SETUP

# Parental setup

## SETTING UP THE PARENTAL LOCK

#### If you forgot your password

- 1. Remove the disc.
- 2. Press and hold the STOP (■) button on the front panel for 5 seconds or more.
  - All settings will revert to the factory settings.

When the factory default settings are restored, all the user data stored in the BD data will be deleted.

#### Setting the Rating Level

- Press the ▲▼ buttons to select Rating Level, then press the ENTER or ► button.
- Press the ▲▼ buttons to select the rating level you want, then press the ENTER button. For example, if you select up to Level 6, discs that contain Level 7, 8 will not play. A larger number indicates that the program is intended for adult use only.

Level 8 is the most restrictive and Level 1 is the least.

#### Changing the Password

 Press the ▲▼ buttons to select New Password, then press the ENTER or ► button.

- Enter the 4-digit password using the number buttons on the remote control. The "Enter New password." message will be displayed.
- **3.** Enter your password again using the number buttons on the remote control.









#### SETTING UP THE NETWORK SETUP OPTIONS

To obtain information on the proper settings, check the network settings on your computer or contact your Internet provider.

🕘 🔯

To set the network of your Blu-ray Home Theater, follow the steps below.

- With the unit in Stop mode/No Disc mode, press the MENU button.
- Press the ▲▼ <> buttons to select Setup, then press the ENTER or > button.
- Press the ▲▼ buttons to select Network, then press the ENTER or ► button.
- Press the ▲▼ buttons to select the desired network option from the options described below, then press the ENTER or ► button.
- Press the ▲▼ buttons to select the desired item, then press the ENTER button. Each network option is described in detail below.

#### **Network Selection**

Select Cable or Wireless as the method to connect to network.

To setup, follow steps 1~3 above.

- 4. Press the ▲▼ buttons to select Network Selection, then press the ENTER or ► button.
  - **Cable** : Select this to connect to the network using a cable. (see page 30)
  - Wireless : Select this to connect to the network wirelessly. (see page 31)

#### **Cable Network**

To setup, follow steps 1~3 above.

- Press the ▲▼ buttons to select Cable Network, then press the ENTER or ► button.
- 5. Press the ▲▼ buttons to select DHCP, then press the ENTER button.
- If DHCP is set to **0n**, you can't select IP Address, Subnet Mask or Gateway.
  - If DNS is set to Auto, you can't select Primary/ Secondary DNS.







# Jetwork setup

## SETTING UP THE NETWORK SETUP OPTIONS

- 6. Press the ▲▼ buttons to select a desired item, then press the **ENTER** button.
  - If DHCP is set to Off and, DNS to Manual, enter vour IP Address, Subnet Mask, Gateway and Primary DNS settings (Secondary DNS is optional).
  - If DHCP is set to **On** and, DNS to Manual, enter your Primary DNS setting (Secondary DNS is optional).

• If DHCP is set to **On** and, DNS to Auto, you don't ) ö need further or additional settings.

🔄 🔅

- When you select an item, use the number and  $\mathbf{A} \mathbf{\nabla} \mathbf{\triangleleft} \mathbf{\triangleright}$  buttons.
  - If the automatic settings don't work, contact your ISP.



- 7. When done, use the ▲▼ buttons to select Save, then press the ENTER button.
- 8. If you don't want to save your work, use the ▲▼ ◀ ► buttons to select Cancel, then press the ENTER button.
- [M The IP address used in this manual is for illustrative purposes only. You must refer to your network settings for the actual IP address.
  - To obtain settings for IP address, Subnet mask, Gateway and Primary DNS, check the network settings in your computer or contact your internet service provider.

#### Wireless Network

To setup, follow steps 1~3 on page 51.

**4.** Press the ▲ ▼ buttons to select **Wireless Network**, then press the **ENTER** or ► button.





Setup available



- **5.** Press the  $\blacktriangle$  v buttons to select **DHCP**, then press the ENTER button.
- M If DHCP is set to **0n**, you can't select IP Address, Subnet Mask or Gateway.
  - If DNS is set to Auto, you can't select Primary/ Secondary DNS.
- 6. Press the ▲ ▼ buttons to select a desired item, then press the ENTER button.
  - Select an Access Point, and then press the **ENTER** button to display available list of APs. (It may take several seconds to search.)
  - When you select an AP and press the ENTER button, it tries to connect to the designated AP.
  - If successful, a notification appears. (If selected AP shows a Lock icon, you may need to provide security authentication.)
  - Select your appropriate Security Access Point if it is known. If it is not, select WEP, WPAPSK or WPA2PSK from the list below and enter in the password. Keep trying each Security Access Point and enter the Password until a connection is made.
  - Enter in the Password then press the **BLUE (D)** button to connect to your access point (Router).

For further details on AP security, refer to the AP's (Router) user manual.

• If DHCP is set to Off and, DNS to Manual, enter your IP Address, Subnet Mask, Gateway and DNS Server.















1 2 3

# Network setup

## SETTING UP THE NETWORK SETUP OPTIONS

• If DHCP is set to **On** and, DNS to Manual, enter your DNS Server.



Setup available Setup not available

- If DHCP is set to **On** and, DNS to Auto, you don't need further or additional settings.
- When you select an item, use the number and
   ▲ ▼ ◀ ▶ buttons.
  - If the automatic settings don't work, contact your ISP.



Setup not available

- 7. When done, use the ▲▼ buttons to select Save, then press the ENTER button.
- If you don't want to save your work, use the ▲▼ < ► buttons to select Cancel, then press the ENTER button.</li>
- The IP address used in this manual is for illustrative purposes only. You must refer to the your network settings for the actual IP address.
  - To obtain settings for IP address, Subnet mask, Gateway and DNS Server, check the network settings in your computer or contact your internet service provider.

#### **Proxy Setting**

A proxy server services requests by forwarding them to other servers.

If you are required to configure the proxy setting, enter the settings specified by the ISP.

To setup, follow steps 1~3 on page 51.

- Press the ▲▼ buttons to select Proxy, then press the ENTER or ► button.
  - Server
  - Port
  - User
  - Password



For more information, contact your ISP (Internet Service Provider).

#### NTP Server (Used to Retrieve Time Information from NTP Server)

To setup, follow steps 1~3 on page 51.

- Press the ▲▼ buttons to select NTP Server, then press the ENTER or ► button.
  - **On** : the player automatically connects to the Internet server in order to adjust the time setting.
  - Off : the player does not connect to the Internet server to adjust the time setting.



#### **Network Connection Test**

Use this menu to check whether your network connection is working or not.

To setup, follow steps 1~3 on page 51.

 4. Press the ▲▼ buttons to select Network Connection Test, then press the ENTER or ► button.



#### **BD-LIVE Internet Connection**

The Blu-ray Home Theater supports BD-LIVE which enables you to enjoy a variety of interactive service contents provided by the disc manufacturer through a network connection. To enjoy this feature, you must first perform the LAN connection (see page 30) or Wireless Lan adapter connection to the USB slot.

\* You must have a minimum 1 GB USB Memory device inserted in one of the USB slots in order to download content from BD-LIVE.

The Internet connection may be restricted while you are using BD-LIVE contents.

To setup, follow steps 1~3 on page 51.

- 4. Press the ▲▼ buttons to select BD-LIVE Internet
   Connection, then press the ENTER or ► button.
  - Allow (All) : The Internet connection will be allowed for all BD-LIVE contents.
  - Allow (Valid Only) : The Internet connection will be allowed only for BD-LIVE contents containing a valid certificate.
  - **Prohibit** : No Internet connection will be allowed for any BD-LIVE content.



- What is a valid certificate? When the Blu-ray Home Theater uses BD-LIVE to send the disc data and request to the server to certify the disc, the server uses the transferred data to check if the disc is valid and sends the certificate back to the player.
  - The Internet connection may be restricted while you are using BD-LIVE contents.

# BD data management

BD Data (stored in external USB flash memory) is Blu-ray Disc content such as trailers and other special features downloaded from the BD-LIVE service or Blu-ray Discs.

\* You must have a minimum 1GB USB Memory device inserted in one of the USB slots in order to download content from BD-LIVE.

## SYSTEM DEVICE MANAGEMENT

You can manage user data stored in BD data.

- **1.** With the unit in Stop mode, press the **MENU** button.
- Press the ▲▼ <> buttons to select Setup, then press the ENTER or > button.
- Press the ▲▼ buttons to select System, then press the ENTER or ► button.
- Press the ▲▼ buttons to select BD Data Management, then press the ENTER or ► button.

#### - To delete the flash memory -

- Press the ENTER button to select BD Data Delete. The message "All BD data will be deleted. Do you want to continue?" will be displayed.
- 2. Press the ◀► button to select Yes, then press the ENTER button.

#### Description of Device(Storage) Information on the Player

- Total Size : Total size of the Device(Storage).
- Available Size : Available size of the Device(Storage).

E Music		Time Zone Clock Set Power On/Off sound: On
Setup	System +	BD Data Management
•	Language Audio Display HDMI Network Parental	System Update

Ji Mus	Clock Set
🔄 🌣 🛛	BD Data Management
	Current Device : External Flash Memory Total Size : 953MB Available Size : 889MB 80 Data Dette
	C Stillect O Return

Memory size information on the current device(storage) is located to the right of the BD Data Management menu.

- In the external memory mode, disc playback will be stopped if you disconnect the USB device in the middle of the playback.
- We recommend using an USB device that supports USB 2.0 protocols, FAT32 format and 4MB or more read /write speed.
- The Resume Play function may not work after formatting the storage device.

# System upgrade

Samsung may offer upgrades to your Blu-ray Home Theater's firmware in the future. To upgrade this firmware you must :

- Go to samsung.com and refer to the 'SUPPORT' page to download the latest firmware. You can use a CD-R or a USB flash drive to perform the firmware upgrade. For more information, see "Upgrade Manual" at the website mentioned above.
- 2. Connect the network (see pages 30~31) and follow the steps below.

## FIRMWARE UPGRADE

- 1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
- 2. Press the ▲▼ ◀ ► buttons to select Setup, then press the ENTER or ► button.
- Press the ▲▼ buttons to select System, then press the ENTER or ► button.
- 4. Press the ▲▼ buttons to select System Update, then press the ENTER or ► button.
- **5.** The player will check the cable or network connection status automatically. The connection checking window will be displayed.
- If the upgrade is possible : You will see information on the current and new versions of firmware in a message box.
- If the upgrade is not possible : You will see the following description in the message box.
  - If the cable is not connected :
     "Ethernet cable is not connected. Please, check the Ethernet cable"
  - If the network connection has failed : "This system can not connect to internet for update. Please, check the network setup"
  - If no latest version is released (the latest version has been already installed) :
     "The latest version of the firmware is already installed.
    - There is no need to update."
  - If there is a disc in the player : "Please maintain "No Disc" state for network update." This indicates that you must remove all discs from the unit to perform the update.
  - If the server service is not available :
     "Update Server is under maintenance. Please try again later."











# System upgrade

#### FIRMWARE UPGRADE

- 6. To perform the system upgrade, press the ◀ ► buttons to select **Start** and then press the **ENTER** button.
- 7. The system update gets started.
- If you select Cancel during the download process, you are prompted to confirm your selection in a message box.
   If you want to cancel the download, select Yes and press the ENTER button.
- **9.** Verification will proceed. When download is done, the firmware update process will begin automatically.
- **10.**When the installation is done, the player will automatically turn off in 5 seconds.

All settings will revert to the factory settings. The next time you start the system and you will see the menu language selection window.

- If you want to cancel the upgrade in the process of downloading the upgrade data, press the ENTER button. You will see a confirmation message. Selecting Yes will end the upgrade process, and selecting No will continue the upgrade process.
  - When the system upgrade is done, check the firmware details in the System Upgrade menu.
  - Do not turn off the player during the System Upgrade, as it may cause the player to not work properly.
  - You must use a USB Flash Drive to do software upgrades using the USB Host jack. Other USB devices(ex. MP3 player) are not guaranteed to work.
  - There should be only one firmware upgrade file in USB flash drive for the player to properly perform an upgrade.
  - Oversized USB drives may not be able to be inserted when a LAN or HDMI cable is connected.



🔄 🔅





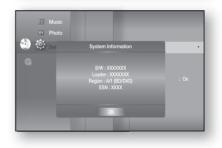
## SYSTEM INFORMATION

When the firmware upgrade is done, check the firmware details by following the steps below.

- 1. With the unit in Stop mode/No Disc mode, press the **MENU** button.
- 2. Press the ▲▼ ◀ ► buttons to select Setup, then press the ENTER or ► button.
- Press the ▲▼ buttons to select System, then press the ENTER or ► button.
- 4. Press the ▲ ▼ buttons to select System Information, then press the ENTER or ► button.
   You can see detailed information about the current firmware.
- **5.** Press the **ENTER** button to select **OK**. System Setup menu will be displayed.







## FIRMWARE UPGRADE NOTIFICATION

This popup menu appears when a newer firmware version is available from SAMSUNG's update server than what is currently on the Blu-ray Home Theater.

- Yes : Select this to upgrade now.
- No : Select this if you plan to upgrade later.

-	System Update
	Yes No

# Watching a movie

## USING THE DISPLAY FUNCTION

- 1. During playback, press the **INFO** button on the remote control.
  - If the Blu-ray Disc has the PIP feature, press the INFO button in the PIP section to display PIP-related information.
- **2.** Press the  $\blacktriangle$   $\lor$  buttons to select the desired item.
- Press the → buttons to make the desired setup change and then press the ENTER button.
  - You may use the number buttons of the remote control to directly access a title, chapter or to start the playback from a desired time.
- 4. To make the screen disappear, press the INFO button again.





<INFO menu for the PIP section>



- J = If you are playing contents from the info menu, some functions may not be enabled depending on the disc.
  - Title : To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a Blu-ray Disc/DVD, each movie will be identified as a Title.
  - Chapter: Most Blu-ray Disc/DVD discs are recorded in chapters so that you can quickly find a specific chapter.
  - Audio : Refers to the film's soundtrack language. A Blu-ray Disc can contain up to 32 audio languages and a DVD up to 8.
  - Playing Time : Allows playback of the film from a desired time. You must enter the starting time as a reference. The time search function does not operate on some discs.
  - Subtitle : Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A Blu-ray Disc can contain up to 255 subtitle languages, and a DVD up to 32.
  - Angle : When a Blu-ray Disc/DVD contains multiple angles of a particular scene, you can use the ANGLE function.
  - BONUSVIEW Video/BONUSVIEW Audio : You can make BONUSVIEW Video or BONUSVIEW Audio settings if the current title of a Blu-ray Disc appears in the PIP section. The BONUSVIEW Video / BONUSVIEW Audio options, however, will be disabled with a Blu-ray Disc that does not support the PIP feature.
  - Picture Mode : This function enables you to adjust video quality when you are connected to a TV via HDMI.
    - Dynamic : Choose this setting to increase Sharpness.
    - Normal : Choose this setting for most viewing applications.
    - Movie : This is the best setting for watching movies.
    - User : The user can adjust the sharpness and noise reduction function respectively.

### **USING THE DISC MENU & POPUP/TITLE MENU**

#### Using the Disc Menu

- 1. During playback, press the **DISC MENU** button on the remote control.
- 2. Press the ▲▼ < ► buttons to make the desired selection, then press the ► or **ENTER** button.
  - The Disc menu setup items may vary from disc to disc.





Depending on the disc, the Disc Menu may not be available.

#### Using the Title Menu

- 1. During playback, press the TITLE MENU button on the remote control.
- **2.** Press the  $\blacktriangle \lor \blacklozenge$  buttons to make the desired selection, then press the **ENTER** button.
  - The Title menu setup options may vary from disc to disc.

M Depending on the disc, the Title Menu may not be available.

Title Menu will only be displayed if there are at least two titles on the disc.

#### Playing the Title List



Video

Title 008

00:04:36

 $\odot$ 

- 1. With the unit in Stop mode/Playback mode, press the DISC MENU or TITLE MENU button.
- 2. Press the ▲ ▼ buttons to select an entry you want to play from Title List, then press the ► or **ENTER** button. The selected entry (title) will be played back.

#### Using the Popup Menu

- 1. During playback, press the **POPUP MENU** button on the remote control.
- 2. Press the ▲▼ ◀ ► buttons or ENTER button to select the desired menu.
  - The Popup menu setup options may vary from disc to disc.





ENG

Depending on the disc, the Popup Menu may not be available.

# Watching a movie

### **REPEAT PLAY**

Repeat the current chapter or title.

#### Repeat playback

- 1. During playback, press the **REPEAT** button on the remote control. Repeat screen appears.
- **2.** Press the  $\blacktriangle$   $\blacktriangledown$  buttons to select **Chapter** or **Title**.
  - Blu-ray Disc/DVD repeats play by chapter or title.
- To return to normal play, press the REPEAT button again, then press the ▲ ▼ buttons to select Off.





Depending on the disc, the Repeat function may not be available.

#### Using the A-B Repeat function

- O
   O
   O
   O
   O

   BDARM
   DO AR
   DVD-WIDED
   DVD-RW
   DVD-RW
- 1. Press the **REPEAT A-B** button on the remote control during playback.
- **2.** Press the **REPEAT A-B** button at the point where you want repeat play to start (A).
- **3.** Press the **REPEAT A-B** button at the point where you want repeat play to stop (B).
- 4. To return to normal play, press the **REPEAT A-B** button again.



Point B cannot be set until 5 seconds of playback has elapsed from point A.

## SELECTING THE AUDIO LANGUAGE

You can select a desired audio language quickly and easily with the AUDIO button.

#### Using the AUDIO button

- 1. Press the **AUDIO** button during playback. The Audio changes when the button is pressed repeatedly.
  - The audio languages are represented by abbreviations.
- 2. To remove the Audio bar, press the RETURN button.

#### Using the INFO button

- 1. During playback, press the INFO button on the remote control.
- 2. Press the  $\blacktriangle \blacksquare$  buttons to select Audio language.
- 3. Press the  $\blacktriangleleft$  > buttons on the remote control to select the desired audio language.
- This function depends on what audio languages are encoded on the disc and may not be available.
  - A Blu-ray Disc can contain up to 32 audio languages and a DVD up to 8.
  - Depending on the disc type, you can use the AUDIO button to change the audio soundtrack as well as the audio language.
     Some Blu-ray Discs may allow you to select either the multi-channel LPCM or Dolby Digital audio soundtrack in English.
  - Information about the primary / secondary mode will be also displayed if the Blu-ray Disc has a PIP section.
    - Use the  $\blacktriangleleft$  **>** button to switch between primary and secondary audio modes.
  - The < ▶ indicator will not be displayed on the screen if the PIP section does not contain any PIP audio settings.

#### SELECTING THE SUBTITLE LANGUAGE

You can select a desired subtitle quickly and easily with the SUBTITLE button.

#### Using the SUBTITLE button

- 1. Press the **SUBTITLE** button. The subtitle changes when the button is pressed repeatedly. The subtitle languages are represented by abbreviations.
- 2. To remove the Subtitle bar, press the RETURN button.







# Watching a movie

### SELECTING THE SUBTITLE LANGUAGE

#### Using the INFO button

- 1. During playback, press the INFO button on the remote control.
- 2. Press the  $\blacktriangle \lor$  buttons to select Subtitle.
- 3. Press the ◀ ► buttons on the remote control to select the desired subtitle language.
- Depending on the Blu-ray Disc / DVD, you may be able to change the desired subtitle in the Disc Menu. Press the DISC MENU button
  - This function depends on what subtitles are encoded on the disc and may not be available on all Blu-ray Discs/DVDs.
  - A Blu-ray Disc can contain up to 255 subtitle languages and a DVD up to 32.
  - Information about the primary / secondary mode will be also displayed if the Blu-ray Disc has a PIP section.
  - This function changes both the primary and secondary subtitles at the same time.
  - The total number of subtitles is the sum of the primary and secondary ones.

## CHANGING THE CAMERA ANGLE

When a Blu-ray Disc/DVD contains multiple angles of a particular scene, you can use the ANGLE function.

#### Using the ANGLE function



- 1. During playback, press the **INFO** button on the remote control.
- 2. Press the  $\blacktriangle \lor$  buttons to select **Angle**.
- Press the ◄ ► buttons or you can use the number buttons on the remote control to select the desired angle.



If the disc has only one angle, this feature won't work. Currently, very few discs have this feature.

Depending on the disc, these functions may not work.

## PIP (PICTURE IN PICTURE) SETTINGS

The PIP feature allows you to view additional content (such as commentaries) in a small screen window while the movie is playing.

#### Using the PIP button

- 1. If the current Blu-ray Disc features the PIP function, you can use the PIP button to turn PIP On or Off.
- 2. Each time you press the PIP button, you can toggle between PIP On and PIP Off.

- You can change detailed settings of the PIP feature in the INFO menu (see page 60: selection of secondary audio, video stream and subtitle etc.).
  - If you switch from BONUSVIEW Video, BONUSVIEW Audio will change automatically in accordance with BONUSVIEW Video.
  - If the Blu-ray Disc supports only BONUSVIEW Audio, you can just press the PIP button to turn the secondary audio on or off.

#### BD-LIVE<sup>™</sup>

The Blu-ray Home Theater supports BD-LIVE which enables you to enjoy a variety of interactive service contents provided by the disc manufacturer through network connection.

#### Using the BD-LIVE Disc

- 1. Connect the network (see pages 30~31) and check the network setup (see pages 51~55).
- **2.** Insert a Blu-ray disc that supports BD-LIVE.
- 3. Select the contents provided by the disc manufacturer to enjoy the BD-LIVE.

The way you use BD-LIVE and the features may differ, depending on the disc.

To use BD-LIVE, you must insert a minimum 1GB USB memory device into one of the USB slots.

ENG



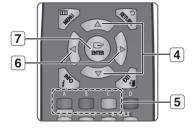


BD-HOM

# Listening to music

## BUTTONS ON THE REMOTE CONTROL USED FOR AUDIO CD (CD-DA)/ MP3 DISC PLAYBACK





- 1. PAUSE button : Pauses playback.
- SKIP ( ) button : During playback, moves to the next page in the Music List or moves to the next track in the Playlist.
- 3. PLAY button : Plays the currently selected track.
- 4. ▲ ▼ buttons : Selects a track(song) in the Music List or Playlist.
- 5. COLOR buttons
  - RED(A) button : Selects the Play Mode(Repeat) during playback.
  - GREEN(B) button : Go to Playlist from Music List.
  - YELLOW(C) button : Playlist play.
- 6. ◀► buttons
  - Plays the applicable track, according to the current position.
  - : Moves to the menu.
- 7. ENTER button : Plays the selected track (song).
- 8. STOP button : Stops a track(song).
- 9. SKIP (Im) button : If you pressed this button after three seconds of playback, the current track will be replayed from the beginning. But, if you pressed this button within three seconds after playback starts, the previous track will be played.

Used to move to the previous page in the Music List or Playlist.

#### REPEAT AUDIO CD(CD-DA) & MP3

- Tracks on a disc are played in the order in which they were recorded on the disc.
- CD Repeat Track (Audio CD(CD-DA)/MP3)
- D Repeat Folder (MP3)
- CRANDOM (Audio CD(CD-DA)/MP3)
  - When playing an Audio CD(CD-DA): The random option plays a disc's tracks in random order.
  - When playing an MP3 disc : The random option plays a folder's file in random order.
- DRepeat All (Audio CD(CD-DA)): All tracks are repeated.

- To return to normal playback -

Press the REPEAT or RED(A) button repeatedly to return to normal playback.

## PLAYING AN AUDIO CD(CD-DA)/MP3

- 1. Insert an Audio CD(CD-DA) or an MP3 Disc into the disc tray.
  - For an Audio CD, the first track will be played automatically.
  - For an MP3 disc, press the ▲▼◀► buttons to select Music, then press the ENTER button. (You can listen to mp3 files using a USB storage device)
- 2. To move to the Music List, press the STOP or RETURN button.

The Music List screen is displayed on your TV.

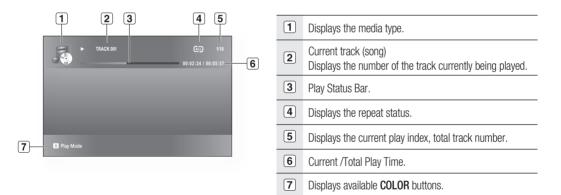
3. Press the ▲▼ buttons to select the track you want to play, then press the ENTER button.



ENG

# Nutrice • TRACK 001 00:04:08 • IPhoto TRACK 002 0:003:17 Setup TRACK 004 00:03:36 TRACK 005 0:003:37 TRACK 005 0:003:36 TRACK 005 0:003:50 TRACK 007 0:03:54

#### Audio CD(CD-DA)/MP3 Screen Elements



# Listening to music

#### Playlist

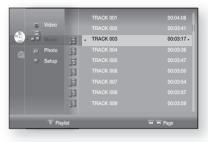
You can create a playlist with up to 99 tracks.

- 1. Insert an Audio CD(CD-DA) or an MP3 Disc into the disc tray.
  - For an Audio CD, the first track will be played automatically.
  - For an MP3 disc, press the ▲▼◀► buttons to select Music, then press the ENTER button. (You can listen to mp3 files using a USB storage device)
- 2. To move to the Music List, press the **GREEN(B)** or **RETURN** button.

The Music List screen is displayed.

- 3. Press the GREEN(B) button to go to the Playlist.
- Press the ▲▼ buttons to select a track, then press the ENTER button to add it to the Playlist. Repeat this procedure to add additional tracks.
- 5. If there is an undesired track in the playlist, press the
   ▲ ▼ button to select that track, and then press the
   ENTER button.
  - The selected track will be deleted.
- Press the YELLOW(C) button to play the selected tracks. When the track is finished, the next track will automatically play.
- 7. To edit the Playlist, press the STOP or RETURN button.
- 8. To go to the Music List, press the RETURN button.









# Viewing a picture

## **VIEWING A PICTURE**

- 1. Insert a JPEG disc into the Disc Slot .
  - The Menu screen is displayed.
- Press the ▲▼ ◄► buttons to select Photo, then press the ENTER button.
  - The Photo List is displayed.
- **3.** Press the  $\blacktriangle \bigtriangledown$  buttons to select a picture.
  - To see the next page, press the SKIP ( 🗩 ) button.
  - To see the previous page, press the SKIP ( Im ) button.

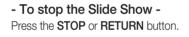
# Music -

### SLIDE SHOW/SPEED

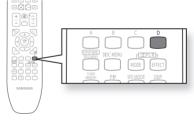
To setup, follow steps 1 and 2 above.

- 3. Press the BLUE(D) button.
  - The slide show starts.
- When the SlideShow starts, press the BLUE(D) button to adjust the play speed.
  - Each time you press the button, the play speed will increase accordingly.







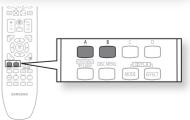


#### ROTATE

To setup, follow steps 1 and 3 above.

- 4. Press the ENTER button.
- Use the RED(A) and GREEN(B) buttons to rotate the image in a desired direction.





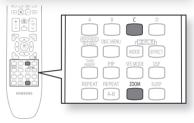
# Viewing a picture

### ZOOM

- To setup, follow steps 1 to 3 in "Viewing a Picture" on page 69.
- 4. Press the ENTER button.
- 5. Press the YELLOW(C) button.
- 6. Use the YELLOW(C) or ZOOM button to zoom the image in/out.
- To move the area Press the ▲▼ ◄ ► buttons to the area you want to enlarge.
- To stop the Zoom -Press the YELLOW(C) button.







## GO TO PHOTO LIST

To setup, follow steps 1 to 3 in "Viewing a Picture" on page 69.

- 4. Press the ENTER button.
- 5. To go Photo List, press the RETURN or STOP button.



Music	-		
🚯 🛃 Photo	176.JPG	06 JUL 2000	127 KB
- Filoto	BEACH.JPG	17 JUL 2000	27 KB •
* Setup			
		D Slide Show	

# Sound mode

## SFE(SOUND FIELD EFFECT) MODE

You can set the SFE best suited for the type of music you are listening to.

#### Press the **SFE MODE** button.

- SFE MODE appears on the display panel.
- Each time the button is pressed, the selection changes as follows

 $\mathsf{HALL1} \to \mathsf{HALL2} \to \mathsf{JAZZ} \to \mathsf{CHURCH} \to \mathsf{ROCK} \to \mathsf{SFE} \ \mathsf{OFF}.$ 

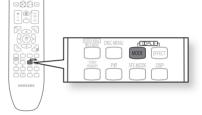
- TO CO TO
- HALL : Provides a clear vocal as if listening in a concert hall.
- JAZZ : Recommended setting for Jazz.
- ROCK : Recommended setting for Rock.
- CHURCH : Gives the feel of being in a grand church.
- SFE OFF : Select this for normal listening.

#### Dolby Pro Logic II Mode

You can select the desired Dolby Pro Logic II audio mode.

Press the **PL II MODE** button.

 Each time the button is pressed, the mode changes as follows.
 MUSIC → MOVIE → PRO LOG → MATRIX → STEREO.



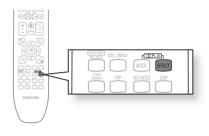
- MUSIC : When listening to music, you can experience sound effects as if you are listening to the actual performance.
- MOVIE : Adds realism to the movie soundtrack.
- PRO LOG : You will experience a realistic multi-channel effect, as if using six speakers, while using just the front left and right speakers.
- MATRIX : You will hear multi channel surround sound.
- STEREO : Select this to listen to sound from the front left and right speakers and the subwoofer only.
- When selecting Dollby Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.
  - This mode is available only with 2 channel audio.

# Sound mode

## Dolby Pro Logic II Effect

This function works only in Dolby Pro Logic II MUSIC mode.

- 1. Press the DC PL II MODE button to select MUSIC mode.
- 2. Press the **PL II EFFECT** button.
  - Each time the button is pressed, the mode changes as follows.
- 3. Press the ◀ ► buttons to select the desired effect setting.
  - **PANORAMA** : This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging. You can select either 0 or 1.



• C- WIDTH : Sound is output to the center speaker only. The front left and right speakers produce phantom sound.

You can select between 0 and 7.

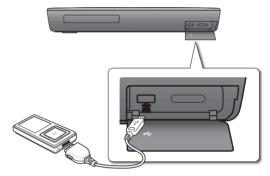
• **DIMENS** : Incrementally adjusts the sound field (DSP) from the front or rear. You can select between 0 and 6.

# Using the USB function

## PLAYING MEDIA FILES USING THE USB HOST FEATURE

You can enjoy media files such as pictures and music saved on an MP3 player, USB memory stick or digital camera.

- 1. Connect the USB device to the USB port on the side of the unit.
- **2. USB Connected** appears on the display screen and then disappears.
- 3. USB icon is displayed on the Setup Menu.



#### Safe USB Removal

To prevent damage to the data stored in the USB device, perform safe removal before disconnecting the USB cable.

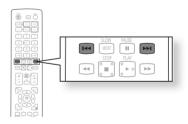
- Press the YELLOW(C) button. The display will show Now. You can remove USB safely.
- Remove the USB cable.

To listen to your music files with 5.1 channel home theater sound, you must set the Dolby Pro Logic II mode to Matrix. (See page 71)

### Skip Forward/Back

During playback, press the I◀, ► button.

- When there is more than one file and you press the ▶ I button, the next file is selected.
- When there is more than one file and you press the I<< button, the previous file is selected.



ENG

# Using the USB function

### **USB Host Specification**

USB Host Specification	<ul> <li>Supports USB 1.1 or USB 2.0 compliant devices.</li> <li>Supports devices connected using the USB A type cable.</li> <li>Supports UMS (USB Mass Storage Device) V1.0 compliant devices.</li> <li>Supports the device of which the connected drive is formatted in the FAT(FAT, FAT16, FAT32) file system.</li> </ul>
Non-compliance	<ul> <li>Does not support a device that requires installing a separate driver on the PC (Windows).</li> <li>Does not support connection to a USB hub.</li> <li>A USB device that is connected using the USB extension cable may not be recognized.</li> <li>A USB device requiring a separate power source needs to be connected to the player with the separate power connection.</li> </ul>
Operational Limitations	<ul> <li>If the connected device has multiple drives (or partitions) installed, only one drive (or partition) can be connected.</li> <li>A device supporting USB 1.1 alone may cause a difference in the picture quality, depending on the device.</li> </ul>

### USB Devices that can be used with the Home Theater

- 1. USB Storage Device
- 2. MP3 Player
- **3.** Digital Camera
- 4. Removable HDD
  - Removable HDDs equipped with less than 160 Gbytes are supported. Removable HDDs equipped with 160Gbytes or more may not be recognized, depending on the device.
  - If the connected device does not work due to insufficient power supply, you can use a separate power cable to supply power so that it can work properly. The connector of the USB cable may differ, depending on the manufacturer of the USB device.
- 5. USB card Reader: One slot USB card reader and Multi slot USB card reader.
  - Depending on the manufacturer. the USB card reader may not be supported.
  - If you install multiple memory devices into a multi card reader, you may experience problems.

### Supported file Formats

Format	File name	File extension	Bit rate	Version	Pixel	Sampling Frequency
Still Picture	JPG	JPG .JPEG	-	_	640x480	-
Music	MP3	.MP3	80~384kbps	-	_	44.1kHz

- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or require additional program installation when connected to a PC are not supported.
- A device using NTFS file system is not supported. (Only FAT 16/32 (File Allocation Table 16/32) file system is supported.)
- Does not operate with Janus enabled MTP (Media Transfer Protocol) devices.

# Radio

## LISTENING TO RADIO

- 1. Press the TUNER button to select the FM band.
- 2. Tune in to the desired station.

  - Automatic Tuning 2 : Press and hold the

**TUNING/CH**  $(\sim \sim)$  button to automatically search for active broadcasting stations.

 Manual Tuning : Briefly press the TUNING/CH (~~) button to increase or decrease the frequency incrementally.

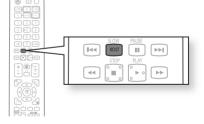
### Main Unit

- 1. Press the FUNCTION button to select the FM band.
- 2. Select a broadcast station.
  - Automatic Tuning 1 : Press the **STOP** (■) button to select **PRESET** and then press the **SKIP** (i → ) button to select the preset station.
  - Automatic Tuning 2 : Press the **STOP** (■) button to select **MANUAL** and then press and hold the **SKIP** (*m m*) button to automatically search the band.
  - Manual Tuning : Press the **STOP** (■) button to select **MANUAL** and then briefly press the **SKIP** ( ) button to tune in to a lower or higher frequency.

#### Mono/Stereo

Press the MO/ST button to listen in Mono/Stereo.

- Each time the button is pressed, the sound switches between **STEREO** and **MONO**.
- In a poor reception area, select **MONO** for a clear, interference-free broadcast.

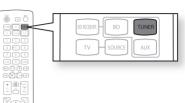


+ 6 -

## PRESETTING STATIONS

Example : Presetting FM 89.10 in the memory

- 1. Press the TUNER button to select the FM band.
- 2. Press the TUNING/CH  $(\sim \sim)$  button to select <89.10>.
- 3. Press the TUNER MEMORY button.
  - NUMBER flashes in the display.
- **4.** Press the **SKIP**  $(\square \square)$  button to select preset number.
  - You can select between 1 and 15 presets.
- 5. Press the TUNER MEMORY button again.
  - Press the TUNER MEMORY button before NUMBER disappears from the display.
  - NUMBER disappears from the display and the station is stored in memory.
- **6.** To preset another station, repeat steps 2 to 5.
  - To tune in to a preset station, press the SKIP (I iii) button on the remote control to select a channel.



RADIO

# Using an iPod

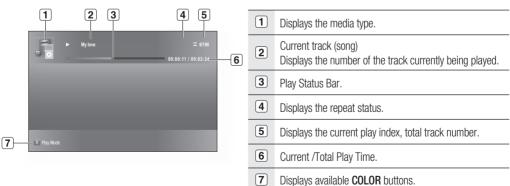
You can enjoy playback of your iPod using the supplied remote control.

## LISTENING TO MUSIC

You can play music files stored in the iPod player by connecting it to the Blu-ray Home Theater.

- 1. Connect the iPod dock connector to the iPod jack on the Blu-ray Home Theater.
- 2. Place the iPod in the Dock.
  - Your iPod is automatically turned on.
  - "iPod Connected" message appears on the TV screen.
- 3. Press the MENU button on the remote control.
- Press the ▲, ♥, ◀, ▶ buttons on the remote control to select iPod mode.
- Press the ▲, ♥, ◀, ▶ buttons on the remote control to select Music and press the ENTER button.
  - The Music categories appear.
- 6. Press the ▲, ▼ buttons desired category and press the ENTER button.
  - The music list appears on your TV.
- 7. Press the ▲, ▼ buttons to select the music file to play and press the ENTER button.
  - The music will start with a new screen which shows the song title, time, artist, and progress bar.
- 8. You can use the remote control or main unit to control simple playback functions such as PLAY, PAUSE, STOP,
   I → , I → and REPEAT.
  - Press the RED(A) button to select a desired play mode.

#### iPod Playback Screen Elements







🚵 a	Video				
0 - 00		5.	TRACK 001		•
	Photo	5	TRACK 002		
	Setup	5			
		.1			
		.5			
	B Play	list		IN IN Page	

To move to the Music List and select a track:

- 1. Press the **MENU** or **STOP** button.
  - It stops playing and returns to the music list.
- 2. Press the ▲, ▼ buttons to select the file you want to play and press the **ENTER** button.
  - Press the **RETURN** or **◄** button to return to the parent menu.

#### iPod Music categories

File information including the artist name, album name, music title and genre will be displayed according to the ID3 Tag information on the appropriate music file.

**Now Playing** : Plays a recently played file or moves to the playback screen of the current file. **Artists** : To play by artist.

Songs : To play in numeric or alphabetical order

Playlists : To play by Playlist.

Albums : To play by album.

Genres : To play by genre.

Composer : To play by composer.

- See page 27 for compatible iPods.
   Compatibility depends on the software version of your iPod.
  - The category list may differ, depending on the iPod model.
  - What is an ID3 Tag?

This is what is attached to an MP3 to carry information relevant to the file such as the title, artist, album, year, genre and a comment field.

When the i-Pod is put into the i-Pod Dock, the Shuffle function does not work.

# Using an iPod

## WATCHING A MOVIE

You can play video files stored in the iPod player by connecting it to the Blu-ray Home Theater.

- 1. Connect the iPod dock connector to the iPod jack on the Blu-ray Home Theater.
- 2. In the iPod screen, move to Videos > Settings and set the TV Out option to On.
- **3.** Place the iPod in the Dock.
  - "iPod Connected" message appears on the TV screen.
- **4.** Press the  $\blacktriangle, \nabla, \blacktriangleleft, \triangleright$  buttons on the remote control to select iPod mode.
- Press the ▲, ♥, ◄, ► buttons on the remote control to select Video and press the ENTER button.
- 6. Press the ▲, ▼ buttons on the remote control to select Movies and press the ENTER button.
  - The video list appears on your TV.
- 7. Press the ▲, ▼ buttons to select the video file to play and press the ENTER button.
  - Video file of the iPod player will be played on the TV screen.
- 8. You can use the remote control or main unit to control simple playback functions such as PLAY, PAUSE, STOP, I → and I → .
  - If you press the PREV button within 2 seconds after the playback, the player will play previous file.
     If you press the PREV button 2 seconds or later after the playback, the player will move to the start screen of the current file.
  - Press the **NEXT** button to play next file.

To move to the Video List and select a file:

- 1. Press the MENU or STOP button.
  - It stops playing and returns to the video list.
- 2. Press the ▲,▼ buttons to select the file you want to play and press the ENTER button.
  - Press the **RETURN** or ◀ button to return to the parent menu.

Settings	
TV Out	On



Noda:				
💿 🛛 🕙 Video	• .E.	<ul> <li>MOVIE 001</li> </ul>		٠
🕀 🦪 Music	5	MOVIE 002		
Photo	.5			
Setup				
	13 13 13			
	5			
	5			
T PI			HK HH Page	

- See page 26 for compatible iPods.
  - Compatibility depends on the software version of your iPod.
  - You must have the VIDEO output connected to your TV to view iPod video (See page 25).
  - If you want to iPod video via VIDEO output, change HDMI CEC off first in case of HDMI CEC is on.
  - No other screen than the playback one will appear on the TV screen. Check other screens on the iPod player.
  - If connected iPod does not support video playback, "Cannot play video files saved on this iPod" message appears when you select the Video menu.

# PC streaming function

## CONNECTING TO A PC AND PLAYING MP3 OR JPEG CONTENT

The shared folder setup method may be different, depending on the PC operating system.

You can connect the Blu-ray Home Theater to a PC and play mp3 or jpeg file content in a shared folder. (Refer to pages 30~31 for the connection)

- 1. Use a router and LAN cable or wireless LAN adapter to connect between the PC and Blu-ray Home Theater.
- **2.** Create a shared folder in the PC and store desired mp3 or jpeg files there.

- For more detailed information about setting a shared folder, visit the Samsung website and download the "Setting the shared folder" manual from the Download center.

- 3. Press the MENU button.
- 4. Press the RED(A) button.

You will see a window where you can select a network search type.

- 5. Use the ◀ ► button to select a network search type. A list of shared servers will appear.
  - Auto : Automatically searches for an available PC.
  - Manual : You must enter the IP address, folder name, windows user name and password before you can find a desired PC.

#### 6. To search a shared folder

There are 2 methods to access shared folders on a PC. (If you search a folder in Auto mode. it must contain less than 12 characters. You must select manual to search for folders with 12 or more characters.)

#### Auto Mode

 Press the ▲▼ button to select a desired PC and press the ENTER button.

(When first connected, you must enter the window user name and password to display the shared folder.)

- 2. Enter the PC's user name in the window.
- 3. Enter the PC's password in the window. The shared folder will be displayed.









ENG

# PC streaming function

## CONNECTING TO A PC AND PLAYING MP3 OR JPEG CONTENT

4. Press the  $\blacktriangle \nabla$  button to select a desired folder.

- Manual Mode
- 1. Enter in the IP address of the PC that has the shared folders.

2. Type in the name of the shared folder in the window then press the **BLUE (D)** button to Save.

- 3. Type in the PC's password then press the **BLUE (D)** button to Save.
- Press the ► button, then press the ▲▼ button to select Video, Music or Photo.

(For playing a Video, Music or Photo, refer to pages 60~70)

The PC name should be in English, excluding characters such as symbols.

- You can search up to 4 PCs connected to the network to play content over.
- You may experience connection problems depending on your PC environment.
   If you encounter a problem with "Auto Mode", please try to "Manual Mode".
- If a conflict occurs between Windows XP simple file sharing and the PC streaming function of the Blu-ray Home Theater, please disable the simple file sharing.
  - For more detailed information, visit the Samsung website and download the "Setting the shared folder" manual from the Download center.
- If you experience PC streaming function problems when using a shared folder on the desktop of windows vista, visit the operating system's technical support site to change a setting or change the directory.





🖸 Returr

Select

Number

A N

lect Folde

DISC





**USING THE E-CONTENTS** 

# Using the e-contents

With this Blu-ray Home Theater, you can use the e-Contents service (YouTube, for example) via the network. After performing the network connection (see pages 30~31), check the network setup (see pages 51~55).

According to company policy, the specifications are subject to change.

e-Content video playback may pause, stop or buffer, depending on your broadband speed.

## USING BLOCKBUSTER

M

This Blu-ray Home Theater enables you to use the following services provided by Blockbuster.

- 1. With the unit in Stop mode/No Disc mode, press the RED(A) button.
  - Movies : Display movies.
  - **TV Shows** : Display TV Shows.
  - Find : Search for a desired movie or TV show by entering it manually.
  - My Library : Display a title that you bought or rented.
  - **My Favorites** : Displays a title that has been added to My Favorites.
  - **Configure** : Activate or deactivate the Blu-ray Home Theater.
  - **Help** : Get customer service contact information and check the current software version.
- **2.** If you don't have a Blockbuster account yet, visit www. blockbuster.com to create your account.
- Press the ▲, ♥, ◀, ▶ button to select the Configure, then press the ENTER button.
- Enter the activation code that is created by the web site, then press the ENTER button to select Activate. When the Blu-ray Home Theater is activated, you will move to the Home page.
- Press the < ► button to select the Movies or TV shows, then press the ENTER button.







# Using the e-contents

### USING BLOCKBUSTER

6. Press the ▲▼◀ ► button to select the desired title, then press the ENTER button.

- Press the < ► button to select the Rent or Buy, then press the ENTER button.
- Press the < ► button to select the Submit Order, then press the ENTER button. If you want to play any of the titles that you bought, simply click Play Now.





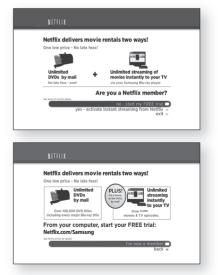
- Depending on the title, some buttons(rent or buy, etc.) may become inactive.
   For more detailed information, visit www.blockbuster.com.
  - Press the EXIT button to exit the Blockbuster. During playback, EXIT button is not available.

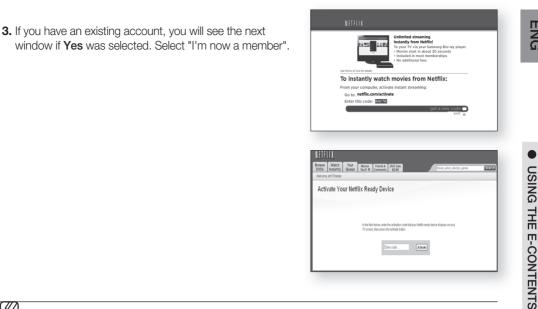
## **USING NETFLIX**

This Blu-ray Home Theater enables you to use the following services provided by Netflix.

1. With the unit in Stop mode/No Disc mode, press the GREEN(B) button.

**2.** If you don't have an account, select "no-start my FREE trial" and subscribe to <http://netflix.com/samsung> from your computer. A user with an existing account can select the "yes-activate instant streaming from Netflix".





- Video quality of the Netflix contents (SD or HD) depends on the network speed and the original bit rate.
- In order to activate your Blu-ray Home Theater with Netflix, visit the www.netflix.com/ samsung and then enter the activation code.
- 4. To add a movie to the Instant Queue list of this Blu-ray Home Theater, select the "Add to Instant" button on the Netflix "Watch Instantly" web page using your PC.

 $\square$ 

5. Movies you added to the Instant Queue from the web are listed.

Press the **ENTER** button of the remote control and select a movie to display the next screen.

- To add a movie in the Instant Queue list of this Blu-ray Home Theater, select "Add to Instant" button on "Watch Instantly" page of Netflix web site using your PC.
- 6. Press the PLAY button to start playback, and the initial buffering of the streamed data is shown.







ENG

# ng the e-contents

## **USING NETFLIX**

- **7.** Press the search button  $(\checkmark)$  to select a scene of your choice.
  - To stop the movie or go to the instant movie list, press the upper arrow key or press Stop.



For more information on the Netflix Instant Streaming feature visit http://www.netflix.com/help/ tv or login to your Netflix account and click "Help" at the top of the page.

### **USING PANDORA**

Pandora provides music personalized to your taste.

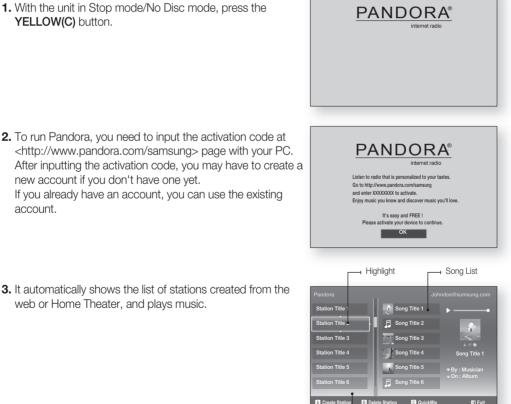
account.

1. With the unit in Stop mode/No Disc mode, press the YELLOW(C) button.

new account if you don't have one yet.

web or Home Theater, and plays music.

list to display the create station window.



4. Press the RED(A) button while the highlight is on the station

J Station List

- Enter the keyword and press the BLUE(D) button to display the search result. (The station keyword should be enter music genre, artist, music title, etc.)

AR

- 6. Press the **GREEN(B)** button while the highlight is on the station list to delete the selected station.
- 7. You can edit your song list by using the color buttons on the remote control while the highlight is on the song list.
  - **RED(A)** : Thumbs Up. By indicating your preference to the server, it plays more songs you love.
  - **GREEN(B)** : Thumbs Down. By indicating your dislike to the server, it plays fewer songs you don't like.
  - YELLOW(C) : Bookmark. It bookmarks the selected song.
- Pandora JohndoréBrumsung.com Station Title 1 Station Title 2 Station Title 3 Station Title 4 Station Title 5 Station Title 5 Station Title 6 Station Title 7 Station Ti

Delete Cancel

- Once bookmarked with this Blu-ray Home Theater, you can find those songs from www. pandora.com using your account and various additional services provided by Pandora web service using your PC.
- **BLUE(D)** : Sleep Song. It excludes the selected song from the station for a month.



The www.pandora.com server reflects the changes made on your Home Theater.

- In order to activate your Blu-ray Home Theater with Pandora, visit the www.pandora.com/ samsung and then enter the activation code.
- For further information on Pandora service or to unsubscribe the Pandora service, email "samsung-support@pandora.com".

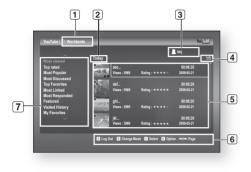
# Using the e-contents

## **USING YOUTUBE**

This Blu-ray Home Theater enables you to use the following services provided by YouTube.

1. With the unit in Stop mode/No Disc mode, press the **BLUE(D)** button.

#### YouTube screen elements



1	Country Selection Information: Shows a country that you selected.
2	Current sorting time: Shows a title list sorted by Time. (Today, Weekly, Monthly, All)
3	User Information: Only shown when logging in.
4	Number of page: The page number of selected title / Total pages in current list.
5	Contents List: Shows a Title, Number of views, Ratings, Runtime and Date.
6	Navigation Help: Shows available buttons.
7	Category List: For more detailed information, please refer to below.

#### Category List

Most Viewed	Shows the most viewed videos.
Top Rated	Shows the highest rated videos.
Most Popular	Shows a list of popular videos.
Most Discussed	Shows the most discussed videos.
Top Favorites	Shows the videos that are most added to user's Favorites.
Most Linked	Shows the videos that are most linked to other web sites.
Most Responded	Shows the videos that are most responded by web users.
Featured	Shows a list of featured videos.
Visited History	Shows a history of visited videos.
My Favorites	If you have logged into your YouTube account with the Blu-ray Home Theater and added a video to My Favorites, you can play the video on the Blu-ray Home Theater or a PC that is synchronized with the YouTube site.
Player Library	You can add videos to the Player Library without logging into your YouTube account.
Search	Select search criteria, and enter a keyword for the video you want to play.
Country Setup	Shows a list of videos for a desired country.
Account Management	Enables you to manage YouTube user names and passwords.

### **Country Setup**

If you select a country in Country Setup, you can view videos from the YouTube site of that country.

- 1. Press the ▲▼ button to select the **Country Setup**, then press the **ENTER** button.
- 2. Press the ▲▼ ◄ ► button to select the desired country, then press the ENTER button.

YouTube / 🗇 Worldwide			You Tube
Player Library Search Country Setup Account Management	Worldwide     Australia     Australia     Elia Granda     Canada     Canada     Canada     Crach Republic     France     Germany     Hong Kong	India  India	<ul> <li>Poland</li> <li>Russia</li> <li>Russia</li> <li>Spain</li> <li>Spain</li> <li>Sweden</li> <li>Talwan</li> <li>Urited Kingdom</li> </ul>

#### Log in

If you have logged into your YouTube account with the Blu-ray Home Theater, you can play videos added to My Favorites.

- 1. Press the RED(A) button on the YouTube screen.
- Press the ▲▼ < ► button to enter the user name, then press the YELLOW(C) button.
- 3. Press the ▲▼ ◀ ► button to enter the password, then press the YELLOW(C) button.
- Press the < ► button to select OK, then press the ENTER button.

 Enter the 4-digit numeric password. You can login YouTube on this Blu-ray Home Theater simply by pressing numeric buttons.









Press the **RED(A)** button to log out of your YouTube account.

ENG

# Using the e-contents

### Playing a video

1. Press the ▲▼ button to select the desired category.

2. Select the current sorting time period (Today, Weekly, Monthly, All) by pressing the **GREEN(B)** button.

- Press the ► button to move to the contents list, then press the ▲▼ button to select the desired title.
- 4. Press the ENTER button.

YouTube / 🗇 Worldwide			١	oulute
Today				1/5
Most viewed				
Top rated	abc		00:06:20	
Most Popular	🗧 Views: 5969 🛛 R	2ting:****	2009-05-21	
Most Discussed	M			
Top Favorites	def Views: 5969 R	bing:★★★★	00:06:20 2009-05-21	
Most Linked	1000 S 1000 K		2005-05-21	
Most Responded	ghi		00:06:20	
Featured		20ing:****	2009-05-21	
Visited History	👔 jkL		00:06:20	
My Favorites	Views: 5969 R	20ing:****	2009-05-21	
¥				
		🖪 Log In	Change Mode	
		La cog in	Citalige mode	
YouTube / 🛇 Worldwide			1	ou Tube
And in case of the local distance of the loc				
Most viewed Today				1/5
Top rated	abc		00:06:20	1
Most Popular	Views : 5969 R	20ing:****	2009-05-21	
Most Discussed	- Aut		00:06:20	
Top Favorites < Today	Weekly Monthly		2009-05-21	
Most Linked				
Most Responded	ghi		00:06:20	
Featured	Views:5969 R	2ting: * * * * *	2009-05-21	
Visited History	🧃 ikl		00:06:20	
My Favorites		20ing:****	2009-05-21	
	110 S . 3365 K	2011g	2005-00-21	
				_
YouTube > Most viewed O World	wide		1	ou Tubé
and the second se				
				_
	Falling in love	_	_	
		_	_	=
	Falling in love	_	_	7
-		_	_	٦
(millio)		_		٦
				٦
		-		٦
-s-R	l love my dogs.			1
Sea and a sea an	l love my dogs.	lings: * * * *	2009-05-21	]
	l love my dogs.	lings : * * * * *	2009-05-21	]
		lings : * * * * * iolations: e.com/t/copyright	2009-05-21 L.notice	]
• <b>0:00:00</b> /00:00/20	l love my dogs.	lings : ** ** iolations: e.com/Vcopyrigh	2009-05-21 t_notice	ļ
	l love my dogs.	lings : * * * * * iolations: e.com/Vcopyright	2009-05-21 L_notice	
0.000 / 10.00.23 Kaywardi: dag, liver, falling	l love my dogs. Views : 198 Rat Report copyright v http://www.youtubr			
bocket (10 March)	l love my dogs.			
bocket (10 March)	l love my dogs. Views : 198 Rat Report copyright v http://www.youtubr			

- Press the ENTER button to display the video in full screen during playback, and to provide related videos when it ends.
  - Depending on Youtube's specifications, HD contents may not play clearly.
  - Press the EXIT button to exit YouTube. During playback, EXIT button is not available.

### Searching a video

- Press the ▲▼ button to select Search, then press the ENTER button.
- 2. Press the ◀► buttons to select the search criteria, then press the ENTER button.
  - Relevance: Select this if you want to search for similar videos.
  - **Published:** Select this if you want to sort videos by the created date.
  - View count: Select this if you want to sort videos by the view count.
  - Rating: Select this if you want to sort videos by the rating.
- Press the ◄► buttons to select Keyword, then press the ENTER button.

YouT						fou Tubi
Plaw	er Library			Search		
			nce 🔹 Published	View Count	Rating Keywo	rd
	ntry Setup ount Management		My Se	arch History	0/0	
					🚺 Log In	
-	_	_	_	_	_	-
		_	_	_	_	_
YouT	ube / 🗇 Worldwide	_	_	_	,	fouTubi
YouT	'ube / 🕥 Worldwide		Coardo	_		fou <u>Tub</u> i
ſ			Search	_	,	
YouT Pla Sei	ube / 🛈 Worldwide	abc	Search		_	fou Tubi
Pla Sei Co			Search 3 def		,	
Pla Sei Co	i 1 - 8			_		
Pla Sec	1 1 - 2 4 ghi	2 abs	3 def			
Pla Sei Co	1 1 - @ 4 ghi 7 pgrs	2 abc 5 jkl 8 tuv	3 def 6 mno			
Pla Sei Co	1 1 @ 4 ghi 7 pgrs Ø Delete	2 abc 5 jkl 8 tuv 0 <b>L</b>	3 def 6 mno 9 wxyz			
Pla Sei Co	1 1 - @ 4 ghi 7 pgrs	2 abc 5 jkl 8 tuv 0 <b>L</b>	3 def 6 mino 9 wxyz ₽ Search	or G <sup>*</sup> Select C		

- 4. Press the ▲▼ ◀ ► button to select a text field.
- **5.** Press the **ENTER** button in the text field repeatedly to select a desired letter, number or icon.

 After you have entered in the subject you want to search, press the YELLOW(C) button on the remote control.

7. Press the ▲▼ buttons to select the desired video, then press **ENTER** button to play the video.

Pressing ENTER button while you are in the a/A/1/★ text field enables you to change the text fields to lower case, upper case, numbers and icons.

### **My Favorites**

If you have logged into your YouTube account with the Blu-ray Home Theater and added a video to My Favorites, you can play the video on the Blu-ray Home Theater or a PC that is synchronized with the YouTube site.

#### Saving a video

- 1. Press the **GREEN(B)** button during playback. The Storage Path popup appears
- 2. Press the ▲▼ button to select My Favorites, then press the ENTER button.
- **3.** Press the **ENTER** button. The desired video will be added to my favorites.

	Falling in love	>
		_
1	'ou can select a file storage path.	- t I
My Favorites	Stores the video in the user account. You can enjoy it in sync with the Favorites of the YouTube site.	
Player Library	You can store a video in the TV regardless of login process.	
<ul> <li>00:00:00 / 00:06:23</li> </ul>	http://www.youtube.com/t/copyright_notice	_
rywords: dog, love, falling		
		_

ENG





# Using the e-contents

### **My Favorites**

### Playing a video saved in My Favorites

- Press the ▲▼ button to select the My Favorites in the category list.
- Press the ► button to move to the contents list, then press the ▲▼ button to select the desired video.
- **3.** Press the **ENTER** button. The selected video will be played back.



If you have logged in your YouTube account, you can also play a video which you added to My Favorites on your PC.

#### **Player Library**

You can add videos to the Player Library without logging into your YouTube account.

#### Saving a video

- 1. Press the GREEN(B) button during the playback.
- **2.** Press the **ENTER** button. The desired video will be added to player library.



### Playing a video saved in the Player Library

- Press the ▲▼ button to select the Player Library in the category list.
- Press the ► button to move to the contents list, then press the ▲ ▼ button to select the desired video.
- **3.** Press the **ENTER** button. The selected video will be played back.

			1
Player Library Search Country Setup	abc Views : 5969	Rating : * * * * *	00:06:20
Account Management	def Views : 5969	Rating : * * * * *	00:06:20 2009-05-21
	ghi Views : 5969	Rating : * * * * *	00:06:20 2009-05-21
	jkl Views : 5969	Rating : * * * * *	00:06:20 2009-05-21

# Convenient function

## SLEEP TIMER FUNCTION

You can set the time that the Blu-ray Home Theater will shut itself off.

#### Press the **SLEEP** button.

• Each time the button is pressed, the preset time changes as follows :  $10 \rightarrow 20 \rightarrow 30 \rightarrow 60 \rightarrow 90 \rightarrow 120 \rightarrow 150 \rightarrow \text{OFF}.$ 

To confirm the sleep timer setting, press the **SLEEP** button.

- The remaining time before the Blu-ray Home Theater will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier.

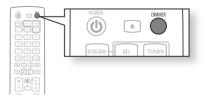
To cancel the sleep timer, press the **SLEEP** button until **OFF** appears on the display.

## ADJUSTING DISPLAY BRIGHTNESS

You can adjust the brightness of the display on the main unit so it won't interfere with your movie viewing.

#### Press the **DIMMER** button.

• Each time the button is pressed, the brightness of front display will be adjusted.

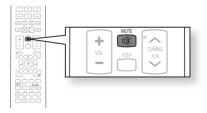


## **MUTE FUNCTION**

This is useful when answering a doorbell or telephone call.

Press the MUTE button.

- MUTE appears in the display.
- To restore the sound, press the MUTE button again.



ENG

REPEAT REPEAT 200M SIEP

믕

# Troubleshooting

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact Samsung Electronics at 1-800-SAMSUNG.

SYMPTOM	Check/Remedy
I cannot eject the disc.	<ul><li> Is the power cord plugged securely into the outlet?</li><li> Turn off the power and then turn it back on.</li></ul>
The iPod fails to connect.	<ul><li>Check the condition of the iPod connector and Dock.</li><li>Keep the iPod S/W version up to date.</li></ul>
Playback does not start.	<ul> <li>Check the region number of the BD/DVD. BD/DVD discs purchased from abroad may not be playable.</li> <li>CD-ROMs and DVD-ROMs cannot be played on this Blu-ray Home Theater.</li> <li>Make sure that the rating level is correct.</li> </ul>
Playback does not start immediately when the Play/Pause button is pressed.	<ul><li>Are you using a deformed disc or a disc with scratches on the surface?</li><li>Wipe the disc clean.</li></ul>
Sound is not produced.	<ul> <li>No sound is heard during fast playback, slow playback, and step motion playback.</li> <li>Are the speakers connected properly? Is the speaker setup correctly customized?</li> <li>Is the disc severely damaged?</li> </ul>
Sound can be heard only from a few speakers and not all 6.	<ul> <li>On certain BD/DVD discs, sound is output from the front speakers only.</li> <li>Check if the speakers are connected properly.</li> <li>Adjust the volume.</li> <li>When listening to a CD, radio or TV, sound is output to the front speakers only. Select "PRO LOGIC II" by pressing CPL II (Dolby Pro Logic II) on the remote control to use all six speakers.</li> </ul>
Dolby Digital 5.1 CH Surround Sound is not produced.	<ul> <li>Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound.</li> <li>Is the audio language correctly set to Dolby Digital 5.1-CH in the information display?</li> </ul>
The remote control does not work.	<ul> <li>Is the remote control being operated within its operation range of angle and distance?</li> <li>Are the batteries drained?</li> <li>Have you selected the mode(TV/BD) functions of the remote control (TV or BD) correctly?</li> </ul>
<ul> <li>Disc is rotating but no picture is produced.</li> <li>Picture quality is poor and picture is shaking.</li> </ul>	<ul> <li>Is the TV power on?</li> <li>Are the video cables connected properly?</li> <li>Is the disc dirty or damaged?</li> <li>A poorly manufactured disc may not be playable.</li> </ul>
Audio language and subtitles do not work.	• Audio language and subtitles will not work if the disc does not contain them.
Menu screen does not appear even when the menu function is selected.	• Are you using a disc that does not contain menus?

SYMPTOM	Check/Remedy	
Aspect ratio cannot be changed.	• You can play 16:9 BD/DVDs in 16:9 Wide mode, 4:3 Letter Box mode, or 4:3 Pan - Scan mode, but 4:3 BD/DVDs can be seen in 4:3 ratio only. Refer to the Blu-ray Disc jacket and then select the appropriate function.	
<ul> <li>The main unit is not working. (Example: The power goes out or a strange noise is heard.)</li> <li>The Blu-ray Home Theater is not working normally.</li> </ul>	<ul> <li>Turn off the power and hold the STOP (■) button on the main unit for longer than 5 seconds.</li> <li>Using the RESET function will erase all stored settings.</li> <li>Do not use this unless necessary.</li> </ul>	
The password for rating level has been forgotten.	<ul> <li>While (NO DISC) message appears on the display of main unit, hold the main unit's STOP (■) button for longer than 5 seconds. INITIAL appears on the display and all settings will return to the default values.</li> <li>Press the POWER button.</li> <li>Using the RESET function will erase all stored settings.</li> <li>Do not use this unless necessary.</li> </ul>	
Can't receive radio broadcasts.	<ul> <li>Is the antenna connected properly?</li> <li>If the antenna's input signal is weak, install an external FM antenna in an area with good reception.</li> </ul>	
While listening to TV audio through the Blu-ray Home Theater, no sound is heard.	<ul> <li>If the OPEN/CLOSE (▲) button is pressed while listening to TV audio using the D.IN or AUX functions, the BD/DVD functions are turned on and this mutes the TV audio.</li> </ul>	
The $\oslash$ icon appears on screen.	<ul> <li>The features or action cannot be completed at this time because:</li> <li>1. The BD/DVD's software restricts it.</li> <li>2. The BD/DVD's software doesn't support the feature (e.g., angles)</li> <li>3. The feature is not available at the moment.</li> <li>4. You've requested a title or chapter number or search time that is out of range.</li> </ul>	
If the HDMI output is set to a resolution your TV cannot support (for example, 1080p), you may not see a picture on your TV.	<ul> <li>Press the STOP (■) button (in front panel) for more than 5 seconds with no disc inside. All settings will revert to the factory settings.</li> </ul>	
No HDMI output.	<ul> <li>Check the connection between the TV and the HDMI jack of the Blu-ray Home Theater.</li> <li>Check if your TV supports 480p/720p/1080i/1080p HDMI input resolution.</li> </ul>	
Abnormal HDMI output screen.	<ul> <li>If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).</li> </ul>	
Cannot search for other access points using USB wireless	<ul> <li>Check the Proxy is Off(Setup -&gt; Network -&gt; Proxy)</li> </ul>	

# Appendix

## CAUTIONS ON HANDLING AND STORING DISCS

Small scratches on the disc may reduce sound and picture quality or cause skipping. Be especially careful not to scratch discs when handling them.

### Handling discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface. Do not stick paper or tape on the disc.

## **Disc Storage**

Do not keep in direct sunlight	Keep in a cool ventilated area	Keep in a clean Protection jacket. Store vertically.

- Do not allow the discs to become contaminated with dirt.
  - Do not load cracked or scratched discs.

## Handling and Storing Discs

When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

• When cleaning, wipe gently from the inside to the outside of the disc

Solution may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

## **SPECIFICATIONS**

Power Requirements		AC 120V, 60Hz			
	Power Consumption	85 W			
General	Weight	9.3 lbs			
	Dimensions	16.9 (W) x 12.8 (D) x 3.1 (H) inches			
	Operating Temperature Range	+41°F to +95°F			
	Operating Humidity Range	10 % to 75 %			
BD (Blu-ray Disc)       BD (DvD (Digital Versatile Disc)       Disc       CD : 5 inches (COMPACT DISC)	BD (Blu-ray Disc)	Reading Speed : 4.917m/sec			
	DVD (Digital Variatila Diga)	Reading Speed :	3.49 ~ 4.06 m/s	ec.	
	DVD (Digital versatile Disc)	Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.			
	CD . E inches (COMPACT DICO)	Reading Speed :	4.8 ~ 5.6 m/sec.		
		Maximum Play T			
	CD : 3 1/2 inches (COMPACT DISC)		4.8 ~ 5.6 m/sec.		
		Maximum Play T			
Со	Composite Video	1 channel : 1.0 \			
		Blu-ray Disc : 48		DVD :	480i
Video Output		<u>Y : 1.0 Vp-p (75</u>	,		
video output	Component Video	Pr : 0.70 Vp-p (75 Ω load)			
		Pb : 0.70 Vp-p (75 Ω load)			
		Blu-ray Disc : 1080i, 720p, 480p, 480i DVD : 480p, 480i			
Video/Audio	HDMI	1080p, 1080i, 720p, 480p			
		PCM multichannel audio, Bitstream audio, PCM audio			
	Front speaker output	165W x 2(3Ω)			
	Center speaker output	170W(3Ω)			
	Surround speaker output	165W x 2(3Ω)			
	Subwoofer speaker output	170W(3Ω)			
Amplifier	Frequency response	Analog input 20Hz~20kHz (±3dB)			
	Frequency response	Digital input 20Hz~44kHz (±3dB)			
	S/N Ratio	70dB			
	Channel separation	60dB	60dB		
	Input sensitivity	(AUX)500mV			
	Speaker system	5.1ch speaker system			
		Front	Surround	Center	Subwoofer
	Impedance	3Ω	3Ω	3Ω	3Ω
	Frequency range	140Hz~50kHz	140Hz~20kHz	140Hz~20kHz	40Hz~160Hz
	Output sound pressure level	87dB/W/M	87dB/W/M	87dB/W/M	90dB/W/M
	Rated input	165W	165W	170W	170W
Speaker	Maximum input	330W	330W	340W	340W
	Dimensions (W x H x D)	Front/Surround : 3.96 x 8.27 x 3.90 inches Center : 11.80 x 2.32 x 1.97 inches Subwoofer : 7.91 x 15.90 x 16.10 inches			
Weights		Front/Surround Subwoofer : 1	: 1.54 lbs, Cent 1.90 lbs	er : 0.73 lbs	

\*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.

- Weight and dimensions are approximate.

- This product uses parts of the software from the Independent JPEG Group.
- This product uses parts of the software owned by the Freetype Project (www.freetype.org).
- This product uses some software programs which are distributed under the GPL/LGPL license.
- This Product uses some software programs which are distributed under the OpenSSL license. Accordingly, the following GPL and LGPL software source codes that have been used in this product can be provided after asking to vdswmanager@samsung.com. GPL software: Linu Kernel, Busybox, Binutilis LGPL software: uClibc, directfb

## The GNU General Public License (GPL)

### Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

**0**. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

## 3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59

Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989 Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

## GNU Lesser General Public License (LGPL)

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom.

The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

**0**. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

# 2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

# 6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### END OF TERMS AND CONDITIONS

#### How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and an idea of what it does.> Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59

Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990 Ty Coon, President of Vice

That's all there is to it!

### **OpenSSL License**

Copyright (c) 1998-2007 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl.core@openssl.org.

5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl. org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

### LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

#### One (1) Year Parts and Labor\*

#### (\*90 Days Parts and Labor for Commercial Use)

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

SAMSUNG's obligations with respect to software products distributed by SAMSUNG under the SAMSUNG brand name are set forth in the applicable end user license agreement. Non-SAMSUNG hardware and software products, if provided, are on an "AS IS" basis. Non-SAMSUNG manufacturers, suppliers, publishers, and service providers may provide their own warranties.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, and except to the extent otherwise expressly provided for in this statement, noncommercial use of this product, and shall not apply to the following, including, but not limited to: damage which occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning or other acts of nature; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied and authorized by SAMSUNG, or which damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, cleaning, maintenance and environmental instructions that are covered and prescribed in the instruction book; product removal or reinstallation; reception problems and distortion related to noise, echo, interference or other signal transmission and delivery problems. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED AND DESCRIBED ABOVE, AND NO WARRANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AFTER THE EXPRESS WARRANTY PERIODS STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON SAMSUNG. SAMSUNG SHALL NOT BE LIABLE FOR LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF SAMSUNG HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOR SHALL RECOVERY OF ANY KIND AGAINST SAMSUNG BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY SAMSUNG AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, PURCHASER ASSUMES ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO PURCHASER AND PURCHASER'S PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT SOLD BY SAMSUNG NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF SAMSUNG. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THE POSDUCT.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To obtain warranty hardware service, please contact SAMSUNG at:

Samsung Electronics America, Inc. 105 Challenger Road Ridgefield Park, NJ 07660-0511 1-800-SAMSUNG (726-7864) and www.samsung.com/us

#### Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

North America	ANADA EXICO S.A RGENTINE RAZIL HILE ICARAGUA ONDURAS OSTA RICA CUADOR LASUXADOR UATEMALA AMAICA AMAICA AMAICA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY ALIA	1-800-SAMSUNG(726-7864)           01-800-SAMSUNG(726-7864)           1-800-SAMSUNG(726-7864)           0800-333-3733           0800-124-421, 4004-0000           800-SAMSUNG(726-7864)           00-1800-5077267           800-5077267           800-5077267           1-800-10-7267           1-800-10-7267           1-800-234-7267           800-6225           1-800-234-7267           800-7267           1-800-632-3180           1-800-751-2676           1-800-751-2676           1-800-751-2676           1-800-751-2676           1-800-751-2676           1-800-10-5303           01-8000112112           02 201 2418           800-SAMSUNG(726-7864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)           06-80-SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/ca www.samsung.com/mx www.samsung.com/mx www.samsung.com/ar www.samsung.com/ar www.samsung.com/latin www.samsung.com/ca www.samsung.com/cz www.samsung.com/fi www.samsung.com/fi
Latin America Latin America Latin El Latin America El Latin America El Latin El Latin El Latin America El La	S.A RGENTINE RAZIL HILE ICARAGUA ONDURAS OSTA RICA CUADOR L SALVADOR L SALVADOR UATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	1-800-SAMSUNG(726-7864)         0800-333-3733         0800-124-421, 4004-0000         800-SAMSUNG(726-7864)         00-1800-5077267         800-7919267         0-800-507-7267         1-800-10-7267         800-299-0013         1-800-234-7267         800-7612         1-800-6225         1-800-234-7267         800-7267         1-800-682-3180         1-800-5303         01-8000112112         02 201 2418         800-SAMSUNG(7267864)         30-6227 515         01 4863 0000         01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/us           www.samsung.com/ar           www.samsung.com/br           www.samsung.com/br           www.samsung.com/latin           www.s
Latin America	RGENTINE RAZIL HILE ICARAGUA ONDURAS ONDURAS OSTA RICA CUADOR L SALVADOR L SALVADOR UATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	0800-333-3733           0800-124-421, 4004-0000           800-SAMSUNG(726-7864)           00-1800-5077267           800-7919267           0-800-507-7267           1-800-299-0013           1-800-299-0013           1-800-299-0013           1-800-294-7267           800-7267           1-800-682-3180           1-800-5303           01-8000112112           02 201 2418           800-SAMSUNG(7267864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/ar www.samsung.com/br www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/be_fr (French) www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin
Latin America	RAZIL HILE ICARAGUA ONDURAS OSTA RICA CUADOR L SALVADOR L SALVADOR UATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	0800-124-421, 4004-0000           800-SAMSUNG(726-7864)           00-1800-5077267           800-7919267           0-800-5077267           1-800-10-7267           1-800-10-7267           800-6225           1-800-234-7267           800-7267           1-800-234-7267           800-7267           1-800-682-3180           1-800-751-2676           1-800-751-2676           1-800-751-2676           1-800-751-2676           1-800-100-5303           01-8000112112           02 201 2418           800-SAMSUNG(800-726786)           8-SAMSUNG(726-7864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/br           www.samsung.com/latin           www.samsung.com/cz           www.samsung.com/latin           www.samsung.com/latin           www.samsung.com/latin           www.samsung.com/latin           www.samsung.com/latin           www.samsung.com/latin           www.samsung.com/latin           www.samsung.com/latin           www.samsung.com/latin           www.samsung.com/latin <td< td=""></td<>
Latin America	HILE ICARAGUA ONDURAS OSTA RICA CUADOR L SALVADOR L SALVADOR UATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	800-SAMSUNG(726-7864)           00-1800-5077267           800-7919267           0-800-507-7267           1-800-10-7267           800-6225           1-800-299-0013           1-800-299-0013           1-800-234-7267           800-682-3180           1-800-682-3180           1-800-751-2676           1-800-5303           01-8000112112           02 201 2418           800-SAMSUNG(800-726786)           8-SAMSUNG(726-7864)           -0-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/cl www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/cz www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin
Latin America	ICARAGUA ONDURAS OSTA RICA CUADOR L SALVADOR U ATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	00-1800-5077267           800-7919267           0-800-507-7267           1-800-10-7267           800-6225           1-800-234-7267           800-7267           1-800-234-7267           800-7267           1-800-682-3180           1-800-751-2676           1-800-5303           01-8000112112           02 201 2418           800-SAMSUNG(800-726786)           8-SAMSUNG(7267864)           -0-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/cz www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin
Latin America	ONDURAS OSTA RICA CUADOR L SALVADOR UATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	800-7919267           0-800-507-7267           1-800-10-7267           800-6225           1-800-239-0013           1-800-234-7267           800-7267           1-800-734-7267           800-751-2676           1-800-53180           1-800-5303           0-800-100-5303           01-8000112112           02 201 2418           800-SAMSUNG(800-726786)           8-SAMSUNG(7267864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/cz www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin
Latin America Latin America G J P P P R R R T F V C C B C C P P P P P P P P	OSTA RICA CUADOR L SALVADOR UATEMALA AMAICA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	0-800-507-7267           1-800-10-7267           800-6225           1-800-239-0013           1-800-234-7267           800-62-5           1-800-751-2676           1-800-53180           1-800-5303           01-8000112112           02 201 2418           800-SAMSUNG(7267864)           8-SAMSUNG(7267864)           0-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin
Latin America	CUADOR L SALVADOR UATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	0-800-507-7267           1-800-10-7267           800-6225           1-800-239-0013           1-800-234-7267           800-62-5           1-800-751-2676           1-800-53180           1-800-5303           01-8000112112           02 201 2418           800-SAMSUNG(7267864)           8-SAMSUNG(7267864)           0-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin
Latin America	CUADOR L SALVADOR UATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	1-800-10-7267         800-6225         1-800-299-0013         1-800-234-7267         800-7267         1-800-682-3180         1-800-5AMSUNG(726-7864)         0-800-100-5303         01-8000112112         02 201 2418         800-SAMSUNG(7267864)         30-6227 515         01 4863 0000         01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin
Latin America	L SALVADOR UATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	800-6225           1-800-299-0013           1-800-234-7267           800-7267           1-800-682-3180           1-800-751-2676           1-800-SAMSUNG(726-7864)           0-800-100-5303           01-8000112112           02 201 2418           800-SAMSUNG(800-726786)           8-SAMSUNG(726-7864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/be (Dutch) www.samsung.com/be (Dutch) www.samsung.com/be (Tench) www.samsung.com/dk www.samsung.com/fi www.samsung.com/fi www.samsung.com/fi www.samsung.com/fi
Latin America G JA PA PU Ri TT Vi CA BB CC CA DI FF FF G G HI HI LL Europe	UATEMALA AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	1-800-299-0013         1-800-234-7267         800-7267         1-800-682-3180         1-800-751-2676         1-800-SAMSUNG(726-7864)         0-800-100-5303         01-8000112112         02 201 2418         800-SAMSUNG(800-726786)         8-SAMSUNG(726-7864)         30-6227 515         01 4863 0000         01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin
Europe	AMAICA ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	1-800-234-7267         800-7267         1-800-682-3180         1-800-751-2676         1-800-SAMSUNG(726-7864)         0-800-100-5303         01-8000112112         02 201 2418         800-SAMSUNG(800-726786)         8-SAMSUNG(7267864)         30-6227 515         01 4863 0000         01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin
Europe	ANAMA UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	800-7267           1-800-682-3180           1-800-751-2676           1-800-SAMSUNG(726-7864)           0-800-100-5303           01-8000112112           02 201 2418           800-SAMSUNG(800-726786)           8-SAMSUNG(7267864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/be (Dutch) www.samsung.com/be fr (French) www.samsung.com/dk www.samsung.com/ff www.samsung.com/ff www.samsung.com/fr
FI G Europe N	UERTO RICO EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	1-800-682-3180         1-800-751-2676         1-800-SAMSUNG(726-7864)         0-800-100-5303         01-8000112112         02 201 2418         800-SAMSUNG(800-726786)         8-SAMSUNG(800-726786)         8-SAMSUNG(7267864)         30-6227 515         01 4863 0000         01805 - SAMSUNG(726-7864 € 0, 14/Min)	www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/be_fr (French) www.samsung.com/be_fr (French) www.samsung.com/dk www.samsung.com/fi www.samsung.com/fi www.samsung.com/fr www.samsung.de
RI TF VI CC BI C2 DI FI GI GI TI TI TI LL Europe	EP. DOMINICA RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	1-800-751-2676         1-800-SAMSUNG(726-7864)         0-800-100-5303         01-8000112112         02 201 2418         800-SAMSUNG(800-726786)         8-SAMSUNG(7267864)         30-6227 515         01 4863 0000         01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/latin www.samsung.com/loe_fr (French) www.samsung.com/cz www.samsung.com/dk www.samsung.com/fi www.samsung.com/fr www.samsung.de
TF VI CC BI CC DI FF FF G G HI IT. IT. LU Europe	RINIDAD & TOBAGO ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	1-800-SAMSUNG(726-7864)         0-800-100-5303         01-8000112112         02 201 2418         800-SAMSUNG(800-726786)         8-SAMSUNG(7267864)         30-6227 515         01 4863 0000         01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/latin www.samsung.com/be (Dutch) www.samsung.com/be (Dutch) www.samsung.com/cz www.samsung.com/dk www.samsung.com/fi www.samsung.com/fr www.samsung.de
Europe	ENEZUELA OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	0-800-100-5303           01-8000112112           02 201 2418           800-SAMSUNG(800-726786)           8-SAMSUNG(7267864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/latin www.samsung.com/be (Dutch) www.samsung.com/be [fr (French) www.samsung.com/cz www.samsung.com/dk www.samsung.com/fi www.samsung.com/fr www.samsung.de
Europe	OLOMBIA ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	01-8000112112           02 201 2418           800-SAMSUNG(800-726786)           8-SAMSUNG(7267864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com.co www.samsung.com/be (Dutch) www.samsung.com/be_fr (French) www.samsung.com/cz www.samsung.com/dk www.samsung.com/fi www.samsung.com/fr www.samsung.de
Europe Ni	ELGIUM ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	02 201 2418           800-SAMSUNG(800-726786)           8-SAMSUNG(7267864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/be (Dutch) www.samsung.com/be fr (French) www.samsung.com/cz www.samsung.com/dk www.samsung.com/fi www.samsung.com/fr www.samsung.de
Ci Di Fi G HI IT. LL Europe Ni	ZECH REPUBLIC ENMARK INLAND RANCE ERMANY UNGARY	800-SAMSUNG(800-726786)           8-SAMSUNG(7267864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/be_fr (French) www.samsung.com/cz www.samsung.com/dk www.samsung.com/fi www.samsung.com/fr www.samsung.de
Di Fi Gi Hi IT. Europe Ni	ENMARK INLAND RANCE ERMANY UNGARY	8-SAMSUNG(7267864)           30-6227 515           01 4863 0000           01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/dk www.samsung.com/fi www.samsung.com/fr www.samsung.de
FI G HI IT. Europe NI	NLAND RANCE ERMANY UNGARY	30-6227 515 01 4863 0000 01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/fi www.samsung.com/fr www.samsung.de
Europe Ni	RANCE ERMANY UNGARY	01 4863 0000 01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.com/fr www.samsung.de
G Hu IT, Europe N	ERMANY UNGARY	01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.de
G Hu IT, Europe N	ERMANY UNGARY	01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.de
HI IT. Europe NI	UNGARY		÷
IT. LL Europe Ni		00-00-0400000(720-7004)	www.samsung.com/hu
Europe N		800-SAMSUNG(726-7864)	www.samsung.com/it
Europe N	JXEMBURG		*
		02 261 03 710	www.samsung.com/lu
	ETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	www.samsung.com/nl
	ORWAY	3-SAMSUNG(7267864)	www.samsung.com/no
	OLAND	0 801 1SAMSUNG(172678), 022-607-93-33	www.samsung.com/pl
	ORTUGAL	80820-SAMSUNG(726-7864)	www.samsung.com/pt
	LOVAKIA	0800-SAMSUNG(726-7864)	www.samsung.com/sk
	PAIN	902-1-SAMSUNG (902 172 678)	www.samsung.com/es
	WEDEN	075-SAMSUNG(726 78 64)	www.samsung.com/se
	.K	0845 SAMSUNG (7267864)	www.samsung.com/uk
	IRE	0818 717 100	www.samsung.com/ie
	USTRIA	0810-SAMSUNG(7267864, € 0.07/min)	www.samsung.com/at
SI	WITZERLAND	0848-SAMSUNG(7267864, CHF 0.08/min)	www.samsung.com/ch
RI	USSIA	8-800-555-55-55	www.samsung.ru
K/	AZAKHSTAN	8-10-800-500-55-500	www.samsung.com/kz ru
U	ZBEKISTAN	8-10-800-500-55-500	www.samsung.com/kz_ru
K	YRGYZSTAN	00-800-500-55-500	
CIS TA	ADJIKISTAN	8-10-800-500-55-500	
	KRAINE	8-800-502-0000	www.samsung.ua
-	THUANIA	8-800-77777	www.samsung.com/lt
	ATVIA	8000-7267	www.samsung.com/lv
	STONIA	800-7267	www.samsung.com/ee
	USTRALIA	1300 362 603	www.samsung.com/au
	EW ZEALAND	0800 SAMSUNG (0800 726 786)	v
	HINA		www.samsung.com/nz
		800-810-5858, 400-810-5858, 010-6475 1880 3698-4698	www.samsung.com/cn
			www.samsung.com/hk
	IDIA	3030 8282, 1800 110011, 1-800-3000-8282	www.samsung.com/in
	IDONESIA	0800-112-8888	www.samsung.com/id
Asia Pacific -	APAN	0120-327-527	www.samsung.com/jp
M	ALAYSIA HILIPPINES	1800-88-9999 1-800-10-SAMSUNG(726-7864)	www.samsung.com/my
	I ILIFFINES	1-800-3-SAMSUNG(726-7864), 02-5805777	www.samsung.com/ph
SI	INGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com/sg
TI	HAILAND	1800-29-3232, 02-689-3232	www.samsung.com/th
	AIWAN	0800-329-999	www.samsung.com/tw
	IETNAM	1 800 588 889	www.samsung.com/vn
	URKEY	444 77 11	www.samsung.com/tr
Middle East &			- · ·
Africa	OUTH AFRICA .A.E	0860-SAMSUNG(726-7864) 800-SAMSUNG (726-7864), 8000-4726	www.samsung.com/za www.samsung.com/ae



## QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT	WRITE
IN THE US	1-800-SAMSUNG (7267864)	www.samsung.com/us	Samsung Electronics America, Inc. 105 Challenger Road Ridgefield Park, NJ 07660-0511

